

<213> Homo sapiens

<400> 390

	ataccaactg	agggtggtat	agagtcacac	ccaatgatac	tggaaatctag	tatcatgtca	60
5	tcacatgtta	tgaaaggaat	taatctatcc	tctggtgatc	aaaatcttgc	tccagagatt	120
	ggcatacagg	agattgcatt	gcattcaggt	gaagaaccac	atgctgagga	acacctgaaa	180
	ggtgactttt	acgaaagtga	acatggtata	aatatagacc	ttaatatata	taatcattta	240
	attgctaaag	agatggaaca	taatacagtg	tgtgctgctg	gtactagtcc	tgttggggaa	300
	attggtgaag	agaaaatttt	gcccaccagt	gagactaaac	agcgacacgt	attggatacc	360
10	tacctgggtg	ttagtgaagc	tgatgcagga	gaaactctat	cttctactgg	tccttttgct	420
	ctggaacctg	atgcaacagg	aactagtaag	ggtattgaat	ttaccacagc	atctactctc	480
	agtttaagtt	aataaatatt	gatgttgatt	tatctttaac	tactcaagat	actgaacatg	540
	acatggtaat	ttccaccagt	cctantgggtg	ggtagtgaaa	cctnacattg	aangggcctt	600
	tgcttgcnta	aagaaattca	atcttggtat	taccatctaa	tataaccctt	gttagtaaa	660
15	gatac						664

<210> 391

<211> 650

<212> DNA

<213> Homo sapiens

<400> 391

	catagccaac	aaaanaatgg	ctggttgnc	ngntatttan	tataagaggg	gttncngcat	60
	tttaattatc	attctacgtc	tatctnngng	atggngaant	tnaaaanlga	cattnaantn	120
25	anactatntc	acaactcaat	gccatactaa	atgtacttgg	cctctgcaat	anaattntag	180
	tcngacttca	ttttttactc	ccttcttatg	acccaagtgg	ctttaacagg	aatgcaggac	240
	ttattgcnga	tcntnacaca	acataccact	ttctttttag	aaccttnaca	aaatnttgag	300
	ggnagatggt	ggcattagcc	ctcgtggaan	agatnntgnt	cacctcnata	acnctggccc	360
	attntctntc	cagcnaaacc	cattnnngaa	tanncaaggg	gncagccct	tcctgnttac	420
30	aggcaantg	ttncagtnnc	ctaccntaag	gnaggggagt	tcatecttnn	naaaacnntg	480
	gngttanngc	gtnttttaan	attccccact	gaanaatacc	ctgatnccct	tcaaacagtc	540
	gtttggatgt	tngcccntta	ancaaancnt	nacttangnn	gaacnatttt	nacttaccaa	600
	aacctgtttg	gtgtaaanac	aatttccatg	gngncaaaaa	attaaangcc		650

<210> 392

<211> 1257

<212> DNA

<213> Homo sapiens

<400> 392

	gctcgggctg	cggggctccg	gctgcgggcg	ctgggccgcg	aggcgcgagg	cttggggagcg	60
	gagcccaggc	cgtgccgcgc	ggcgccatga	agggcaaggga	ggagaaggag	ggcgggcgac	120
	ggctggggcg	tgccggcgga	agccccgaga	agagcccagag	cgcgcgaggag	ctcaaggagc	180
	agggcaatcg	tctgttcgtg	ggcggaagt	acccggaggc	ggcgggcctgc	tacggcgcg	240
45	cgatcacccg	gaacccgctg	gtggccgtgt	attacaccaa	ccgggccttg	tgctacctga	300
	agatgcagca	gcacgagcag	gccctggccg	actgccggcg	cgccctggag	ctggacgggc	360
	agtctgtgaa	ggcgcaactc	ttcctggggc	agtgccagct	ggagatggag	agctatgatg	420
	aggccatcgc	caatctgcag	cgagcttaca	gcctggccaa	ggagcagcgg	ctgaacttcg	480
	gggacgacat	ccccagcgct	cttcgaatcg	cgaagaanaa	gcgctggaac	agcattgagg	540
50	agcgggcgcat	ccaccaagaa	agcgagctgn	acttctacct	nttcangctt	attgccgcng	600
	accgtgaaag	gaagntgaaa	nagtgcgaag	gaaaccacga	ggggatagag	gacgacaagc	660
	cacgtccggg	gcccagcagg	cttgcaattga	ggccaagcac	gacaagtaca	tggcggacat	720
	ggacgagctt	tttttttcag	gtggatgaaa	gagggaagaag	cgagacatcc	ccgacttacc	780
	tgtgtggcaa	gatcagcttt	gagccgatgc	gggagccgtg	catcacgccc	agtggcatca	840
55	cctacgaccg	caaggacatc	gaggagcacc	tgcagcgtgt	gggtcatttt	gaccccgctga	900
	cccggagccc	cctgacccag	gaacagctca	tccccaaactt	ggctatgaag	gaggttattg	960
	acgcattcat	ctctgagaat	ggctgggtgg	aggactactg	aggttccctg	ccctacctgg	1020
	cgctcctggtc	caggggagcc	ctgggcagaa	gccccgggcc	cctatacata	gtttatgttc	1080
	ctggccaccc	cgaagccttc	ccccaaagtc	tctgttgga	ctntggactg	ttccccctct	1140
60	cagcatcgct	ttgtctgggc	cgtgatcgtc	gccctttgtg	ggctggaaaa	gcagggtgag	1200
	gtgggctggg	ctgaggccat	tgccgccnct	atctgtgtaa	taaaatccgt	gagcacg	1257

<210> 393

	ataccaactg	nggtgg	agagtcacaca	ccaatgatac	ggaactctag	tatcatgtca	60
	tcacatgtta	tgaaaggaat	taatctatcc	tctggtgac	aaaatcttgc	tccagagatt	120
	ggcatacagg	agattgcatt	gcattcaggt	gaagaaccac	atgctgagga	acacctgaaa	180
5	ggtgactttt	acgaaagtga	acatggtata	aatatagacc	ttaataataa	taatcattta	240
	attgctaaag	agatggaaca	taatacagtg	tgtgctgctg	gtactagtcc	tggtggggaa	300
	attggtgaag	agaaaatttt	gccaccaggt	gagactaaac	agtgcacagt	attggatacc	360
	taccctggtg	ttagtgaagc	tgatgcagga	gaaactctat	cttctactgg	tccttttgct	420
	ctggaacctg	atgcaacagg	aactagtaag	ggtattgaat	ttaccacagc	atctactctc	480
10	agtttagtta	ataaatatga	tgttgattta	tctttaacta	ctcaagatac	tgaacatgac	540
	atggtaattt	ccaccagtc	tagtgggtgg	agtgaagctg	acattgaagg	gcctttgcct	600
	gctaaagata	ttcatcttga	tttaccatct	aataataacc	ttgttagtaa	ggatacagaa	660
	gaaccattac	ctgtaaaaga	gagtgaccag	acattagcag	ctctgctcag	ccctaaagaa	720
	agtagtggag	gagaaaaaga	agtacctccc	cctcctaaag	agacactgcc	tgattcagga	780
	ttttctgcca	atattgagga	tattaatgaa	gcagatttag	tgagaccggt	acttcttaag	840
15	gacatggaac	gtcttacaag	ccttaaaagc	tggcatttga	aggaccttta	cttgcaagtg	900
	atgtttggac	cgtggacaag	atctgctggc	cagcccngtt	tgtaagtagt	atgccagaa	960
	agaactttca	gaggtctttn	tttcagangg	aaaaaggatt	gattnttgaa	aattttttgt	1020
	taaaagntta	aagggccctt	ccccgaaaaa	aaagccagga	aaaattaang	aacccggggg	1080
20	taangggggg	gggaaaggag	gaaagaaaa				1109

<210> 388

<211> 823

<212> DNA

<213> Homo sapiens

25

<400> 388

	gtcctgttgg	ggaaattggt	gaagagaaaa	ttttgccac	cagtgaagact	aaacagtgca	60
	cagtattgga	tacctaccct	ggtgttagtg	aagctgatgc	aggagaaact	ctatcttcta	120
	ctggctcctt	tgctctggaa	cctgatgcaa	caggaactag	taagggatt	gaatttacca	180
30	cagcatctac	tctcagttta	gttaataaat	atgatgttga	tttatcttta	actactcaag	240
	atactgaaca	tgacatggta	atttccacca	gtcctagtgg	tggtagtga	gctgacattg	300
	aagggccctt	gcctgctaaa	gatattcatc	ttgatttacc	atctaataat	aaccttggtta	360
	gtaaggatac	agaagaacca	ttacctgtaa	aagagagtga	ccagacatta	gcagctctgc	420
	tcagccctaa	agaaagtagt	ggaggagaaa	aagaagtacc	tccccctcct	aaagagacac	480
35	tgccctgattc	aggattttct	gccaatattg	aggatattaa	tgaagcagat	ttagtgagac	540
	cgttacttcc	taaggacatg	gaacgtctta	caagccttaa	aagctggcat	ttgaaggacc	600
	tttacttgca	agtgatgttt	ggaccgtgga	caagatctgc	tggccagccc	ngtttgtaag	660
	tagtatgccc	agaaagaact	ttcagaggtc	ttnttttcag	anggaaaaag	gattgatnt	720
	tgaaaatttt	ttgttaaaag	nttaaggggc	cctccccga	aaaaaaagcc	aggaaaaatt	780
40	aangaacccg	gggntaangg	gggggggaaa	ggaggaaa	aaa		823

<210> 389

<211> 679

<212> DNA

<213> Homo sapiens

45

<400> 389

	attccagaga	agtttgtatt	tgggccttaa	gcttttgaaa	ataaagttta	gagacatagc	60
	atatgaatac	cactgtaata	cacatgaaat	attctatcag	accctaaaaa	ttaacataaa	120
50	cttttaactt	tctcatagtc	aacaaaatag	tggctgggtg	ccaattttat	tagataagtt	180
	ggttacagca	ttttaattat	cattttacgt	ctatctaggn	gtagctgaaa	ttcaaaatgc	240
	acatcaaaag	aaaactatat	cacaactcaa	tgccatacta	aatgtacttg	gcctctgcaa	300
	tagaattcta	gtcagacttc	attttttact	cccttcttat	gacccaagtg	gctttaacag	360
	gaatgcagga	cttagtgctg	atcatcacac	aacataccac	tttcttttta	gaacctctac	420
55	aaaattttga	ggggagatgg	nggcattagc	cctgtggaac	agatcttgat	cacctcaata	480
	acactggccc	attatctgtc	cagcagaacc	cattgtgaaa	tagtacaagg	ngcacagcct	540
	tcactgatta	caggcaagtg	gttacagtag	cctaaccnta	anggaagggg	aggtccatct	600
	tagtacaaaa	atcnagttaa	aaagcgggtt	ttaacattcc	ncactggaaa	atacctttgg	660
60	tgcccttaaa	cagtcggtt					679

<210> 390

<211> 664

<212> DNA

<212> DNA

<213> Homo sapiens

<400> 384

5 gaaacatgcc aactcctaaa aaaagaagaa gtaaaaaatg tggcagaatt acctactaag 60
 gtagaagaaa tacctcatcc gaaagaggaa atgaatggta ttaacagcat agagatggac 120
 agtatgaggc attctgaaga ctttaaagag aaactcccaa aaggaaatgg gaaaagaaaa 180
 agtgacactg aatttggtta catgaagaaa aaagttaaat tatccaagga acaccagtca 240
 ttggaagaga accagagaca aactagatca aaaagaaaag ctacaagtga tacattagag 300
 10 agtcctccta aaataattcc caagtatatt tctgaaaatg agagtccaag accctcacia 360
 aagaaatcaa gagttaaaat aaattgggtta aagtctgcaa ctaagcaacc cagcattcctt 420
 tctaaatttt gtagtctggg aaaaataaca acaaaccaag gagtcaaagg acaatctaaa 480
 gaaaatgaat gtgacctcga agaggacttg ggggaagtgt aaagtataa cacaactaat 540
 ggttggtggac ttgaatctcc aggaaatact gttacacctg taaatgttaa tgaagttaa 600
 15 ccataaaca aagggtgaaga acaaatgggt ttttgagcct agtggagaaa ttatttcaag 660
 ggtcagcttg gtattaaagg cgccgttgct ttggaatgtg aaagtttaac nggaaaggaa 720
 gagaagattt tcaagacatc agtgtgccag taaaaaaaag atgaactttt ccaagtaaaa 780
 gaaagtctt gaaatttttc cgaacccaaa ac 812

<210> 385

<211> 676

<212> DNA

<213> Homo sapiens

<400> 385

25 cattttgaaa tttaataatt ctaatagtaa caagaacat agtttatgct tttttttaa 60
 tgaaaacaaa caagtaattt tgtaaaagtc agaaaacacc agtatccttc tgatctcatc 120
 ctggattttt ctgtcagctg gaggatgcat ttctgacccc atcccagaca cgtgaaagca 180
 30 gaagacatga tgcacttata ataataagag cacaatctaa agagtattat cacaccgtga 240
 acagcttctt cctgaccag agcaaatatt aagagaaaga caatatattt acaaaacaaga 300
 tttaataatg ttcacaagaa tagagtgtgc ccccaaatgg aaaattacac attattttgt 360
 ttcaaaaagt tataaattta gtgcttgaaa aatccagcag gtaagtagaa ggactaacag 420
 ggtctgtttc tggaaactgtc cgccagcaaa tgagcatgct ctgtcctgga agccattttt 480
 ctttttcttt cttttttttt ttcttttgaga cagagttttt ttgtctgttg ccagggctgg 540
 35 agtacaagg tgcaatctcg gctcaccaca acctccgcc cttgggttca agcaattctc 600
 ctgctcagc ctcttgagca gctgggatta caggcatgtg ccaccacgcc tggctaactt 660
 ttctgtattt tcagta 676

<210> 386

<211> 714

<212> DNA

<213> Homo sapiens

<400> 386

45 aaaatgtggc agaattacct actaaggtag aagaaatacc tcatccgaaa gaggaatga 60
 atggtattaa cagcatagag atggacagta tgaggcattc tgaagacttt aaagagaaac 120
 tcccaaaagg aaatgggaaa agaaaaagtg aactgaatt tggtaacatg aagaaaaaag 180
 tttaattatc caaggaacac cagtcattgg aagagaacca gagacaaact agatcaaaaa 240
 50 gaaaagctac aagtataca ttagagagtc ctctaaaaat aattcccaag tatattttctg 300
 aaaatgagag tccaagacc tcacaaaaga aatcaagagt taaaataaat tggttaaagt 360
 ctgcaactaa gcaaccagc attctttcta aattttgtag tctgggaaaa ataacaacaa 420
 accaaggagt caaaggacaa tctaaagaaa atgaatgtga tctgaagag gacttgggga 480
 agtgtgaaag tgataacaca actaatggtt gtggacttga atctccagga aatactgtta 540
 cacctgtaaa tgtaaatgaa agttaaaccc ataaaccaag gtgaagaaca aattgggttt 600
 55 tgagctagtg gagaaattat ttcaaggnc agctngtatt aaggcccctt gctttggaat 660
 ggggaaagg ttaccgaaa ggaagaagaa gattttccag gacattcggg ggtg 714

<210> 387

<211> 1109

<212> DNA

<213> Homo sapiens

<400> 387

	ctgaaattga	tcaagttggt	cctgcagcac	agtcttcacc	tataaactgt	gagaagagag	60
	aaaacttggt	accatttggt	ggactgaata	atctcggcaa	tacttgctat	cttaatagta	120
	tacttcaggt	attatatatt	tgtcccgggt	ttaaatctgg	agtaaagcac	ttattttaata	180
	ttatttcaag	gaagaaagaa	gctctaaagg	atgaagccaa	tcaaaaagac	aagggaaatt	240
5	gcaaagaaga	ttctttggca	agttatgaat	tgatatgcag	tttacagtc	ttaatcattt	300
	cgggtgaaca	gctccaggct	agttttctct	taaatccaga	gaaatatact	gatgaacttg	360
	ccactcagcc	aaggcgactg	cttaacacac	tgagggaact	caaccctatg	tatgaaggat	420
	atctacagca	tgatgcacag	gaagtattac	aatgtatttt	gggaaacatt	caagaaacat	480
	gccaactcct	aaaaaaagaa	gaagtataaa	atgtggcaga	attacctact	aaggtagaag	540
10	aaatacctca	tccgaaagag	gaaatgaatg	gtattaacag	catagagatg	gacagtatga	600
	ggcatttctga	agacttttaa	gagaaactcc	caaaaggaaa	tgggaaaaga	aaaagtgaca	660
	ctgaatttgg	taacatgaag	aaaaaagtta	aattatccaa	ggaacaccag	tcattggaag	720
	agaaccagag	acaaactaga	tcaaaaagaa	aagctacaag	tgatacatta	gagagtcctc	780
	ctaaaataat	tcccaagtat	atttctgaaa	atgagagtc	aagaccctca	caaaaagaaat	840
15	caagagttaa	aataaattgg	ttaaagtctg	caactaagca	acccagcatt	ctttctaaat	900
	ttttagtct	gggaaaaata	acaacaaacc	aaggagtcaa	aggacaatct	aaagaaaatg	960
	aatgtgatcc	tgaagaggac	ttggggaagt	gtgaaagtga	taacacaact	aatggttggtg	1020
	gacttgatc	tccaggaaat	actgttacac	ctgtaaatgt	taatgaagtt	aaaccataa	1080
	acaaaggtga	agaacaaatt	ggtttttgag	cctagtggag	aaattatttc	aagggtcagc	1140
20	ttggtattaa	aggcgccgtt	gctttggaat	gtgaaagttt	aacnggaaag	gaagagaaga	1200
	ttttcaagac	atcagtgtgc	cagtacaaaa	aagatgaact	tttccaagta	aaagaaagtt	1260
	cttgaaattt	ttccgaaccc	aaaac				1285

<210> 382

25 <211> 658

<212> DNA

<213> Homo sapiens

<400> 382

30	ctgaaattga	tcaagttggt	cctgcagcac	agtcttcacc	tataaactgt	gagaagagag	60
	aaaacttggt	accatttggt	ggactgaata	atctcggcaa	tacttgctat	cttaatagta	120
	tacttcaggt	attatatatt	tgtcccgggt	ttaaatctgg	agtaaagcac	ttattttaata	180
	ttatttcaag	gaagaaagaa	gctctaaagg	atgaagccaa	tcaaaaagac	aagggaaatt	240
	gcaaagaaga	ttctttggca	agttatgaat	tgatatgcag	tttacagtc	ttaatcattt	300
35	cgggtgaaca	gctccaggct	agttttctct	taaatccaga	gaaatatact	gatgaacttg	360
	ccactcagcc	aaggcgactg	cttaacacac	tgagggaact	caaccctatg	tatgaaggat	420
	atctacagca	tgatgcacag	gaagtattac	aatgtatttt	gggaaacatt	caagaaacat	480
	gccaactcct	aaaaaaagaa	gaagtataaa	atgtggcaga	attcctacta	aggngagaaga	540
	aatcctcatc	cgaagaagaa	atgaatgggt	tacagcatan	agatggcnag	atgagncttc	600
40	tgnagacttt	taagagaact	cccaaaggaa	tggggaaaaga	aaaagtgccc	tggatttg	658

<210> 383

45 <211> 721

<212> DNA

<213> Homo sapiens

<400> 383

	agttaagcag	tttaaatttt	attgacctcc	cagtttttaa	aaaaagttaa	atttaaggtc	60
	acacctctaa	gtttgatgta	ctatatacag	atcgtgcaga	atatgagtta	aacagatata	120
50	aattagtcca	tgcccaaaaa	gatatactag	ggtacagaat	catcttcata	aatacatata	180
	aaattcttgt	gtagaagcga	actgtccagg	ttttctgaga	cacttctaag	tgaatcaagg	240
	cacaaaatgt	acataacca	ttgtgaatac	acacattcta	gactttgtgc	ctctgacata	300
	gccaaggat	ttagcttcat	gactcttata	aaactaaatg	tactgaatga	gattctgctt	360
	cttgggtgaa	aaaccacagg	aactataaac	atcatgtaga	taattactcc	aaaatatgga	420
55	gaatacaaat	acgagcactt	tattttaaaa	agcaaacaca	aaagactggg	gtaaatccaa	480
	gtgttttaaat	gcctccgttt	tggataattt	aattaagaac	cgatcaagtt	tgttcccgaga	540
	agctaattgca	tcactagtct	ctactgagga	aatgagttc	taaaaattaa	catgggtttc	600
	agtaattcan	atttcactat	ttatnttaaa	aacctagagg	ggaccnatta	ttttncngta	660
	gcttcnaaag	ataaactaaa	gattccttga	tgtaatcact	tttnccaatg	gttgggatgg	720
60	g						721

<210> 384

<211> 812

tgaagaaagc aagcaggagt gttggctcag tgcctaaagt gtctgcaata agtaaaacgc 120
 aaacagcaga aaaaattaaa cctgaaaaca gctcttcagc atctacggga ggcaaaacttg 180
 taaaacctgg aacagcagca tcattgtcaa agaccaagag cagtgatgac cttttagctg 240
 5 gaatggccgg aggggtaacg gtgactaatg gtgttaaagg aaagaaaagc acctgcccac 300
 ctgcagcacc ttcagcatct gcccctgccca tgaccaccgt ggagaacaaa tccaagatta 360
 gcacaggcac agcttcttca accaagcggga gcacttctac aggtcagggga gctaatagaca 420
 tggcattggc caaacgttcc cgcagtcgaa ctgctacaga atgtgacgtt cgtatgagca 480
 agtcttagtc agacaatcaa gatcagtgac agancgtgct tggaggccaa agtgaangat 540
 10 cttntnncgc tggccaaaac caaagacgta gaaattttac attttgagaa aatgaactgg 600
 gaganatgcg tgcccactn ggcattaatg aangatcatt tttgangggg gntgaaaaaa 660
 tcttgagaaa ggaaact 677

<210> 400

<211> 670

15

<212> DNA

<213> Homo sapiens

<400> 400

aattaataga ggcagaagga atagaagata tagaaaaaga ggacatcgaa agtcaggaaa 60
 20 ttgaagctca agaaggtgaa gatgatacct ttctaacagc ccaagatggg gaggaagaag 120
 aaaatgagaa agatatagca ggttctggtg atggtacaca agaagtatct aaacctcttc 180
 cttcagaagg gagcctagct gaggtgatc acacagctca tgaagagatg gaagctcata 240
 cgactgtgaa agaagctgag gatgacaaca tctcgggtcac aatccaggct gaagatgcca 300
 25 tcaactgga ttttgatggg gatgacctcc tagaaacagg taaaaatgtg aaaattacag 360
 attctgaagc aagtaagcca aaagatgggc aggacgcat tgcacagagc ccggagaagg 420
 aaagcaagga ttatgagatg aatgcgaacc ataaagatgg taagaaggaa gactgctgga 480
 agggtgacc tgctgagaag gaagccagag aaagtcttan gaaagcagaa tctggagacc 540
 aaagaaaang atacttttga agaaanggnc ctgctactg gggccctctg gtcaaagcca 600
 aaagagctct tcaaanggaa ttcttaaaga cagccaagga catcatctta aggatgacca 660
 30 aaaggaaagt 670

<210> 401

<211> 709

35

<212> DNA

<213> Homo sapiens

<400> 401

canatttctc agacgatctt ttctcttctt ttttgacaga ggcttgtgtc ttgctacttc 60
 40 tatcactcgt atttttttta tctccagaac ttcttgaact actcttttca tcattttctt 120
 tcttcatttc tttcttagag ggatcacctt ttactttttc aacagaaatc agctgtccat 180
 gcagctcagt gcgatgaana tgtgcaatac acctggacac ctctgtgctt gaagacatag 240
 ttacaatgcc atagcatttt gcccaggac ttcgagcatt tgtaactact tttgactca 300
 gaacctttcc atatttgcca aagaggttct tcaaatcagc agctttggta ttagatgaaa 360
 45 gtccactaac ccanatattt ttagttagc ttncactgct accactagta ctacttgnac 420
 ttcttttgnc atcttttagat gatgtcttgc tgtctttaga ttcttttgaa gagctctttg 480
 cttgaccana ggccccagta gacgagggcc ctttcttcaa agtatctttt tctttgtctc 540
 cagattctgc tttcttagaa ctttctctgg ctctcttctc gacaggggtca cccttcacgc 600
 agtcttctct cttaccatct ttatggntcg cattcatctc ataactcttg ctttctctct 660
 50 ncgggctntg ngcaatggcg gnccggccca tcttttggt tacttgctt 709

<210> 402

<211> 697

55

<212> DNA

<213> Homo sapiens

<400> 402

gctgcctccg ccgcccggg gcacannttt gggcanggag cccatcgagg ggcncgcgng 60
 ggcgcgggca tgggactgcg ccggatccgn ngacagcatg ganccaagcg gcccgggccc 120
 tgagcgcgta ttctccgggg ggccctcgccc tctgtctngc ggggccnngg ctctgntcc 180
 60 ggttgctngc gctnatgctg gctgtngcgg cgnnacagcat catgtngggg cgccgcagtc 240
 cctcgnnnga gggagcangc ctgcncgagc gccaatggnc gangcctgt gagcccagac 300
 gtccgatanc tnttccgaag nngtgcenca accggggagc nggaangagt tnaacaggct 360
 ggtgactnct nnnaaangag aacanncten annccngcgg gctggaaanc caccenntg 420

	natttnacng	aaanttttgg	gcgnaaanac	anaagttnaa	natttgcttc	aaaatgggtg	480
	caaatntcca	aacacctgat	agatggggag	ccttattcct	cttaataagg	catcctnttt	540
	ttgggtatatt	cctngaaaaat	aatngaantn	ttntcttttg	aagannttgg	gncnatcccc	600
	ccaattgcnt	tgaataaan	ttggaaatta	ntactnccn	ttcatgaaan	cctnnaattt	660
5	aaaanggaaa	nnanttgant	ggtttnncca	nttgcttc			697
	<210> 403						
	<211> 623						
	<212> DNA						
10	<213> Homo sapiens						
	<400> 403						
	gctcgggctg	cggggctccg	gctcggggcg	ctggggccgcg	aggcgcggag	cttggggagcg	60
	gagcccaggc	cgtgccgcgc	ggcgccatga	agggcaagga	ggagaaggag	ggcggcgcac	120
15	ggctggggcg	tggcggcgga	agccccgaga	agagcccgag	cgcgcaggag	ctcaaggagc	180
	agggcaatcg	tctgttcgtg	ggcggaaagt	accggaggcg	ggcggcctgc	tacggccgcg	240
	cgatcaccgc	gaacccjctg	gtggccgtgt	attacaccaa	ccgggccttg	tgctacctga	300
	agatgcagca	gcacgagcag	gccctggccg	actgccggcg	cgccctggag	ctggacgggc	360
	agtctgtgaa	ggcgcacttc	ttcctggggc	agtgccagct	ggagatggag	agctatgatg	420
20	aggccatcgc	caatctgcag	cgagcttaca	gcctggccaa	ggagcagcgg	ctgaacttcg	480
	gggacgacat	ccccagcgt	cttcgaatcg	cgaagaanaa	gcgctggaac	agcattgagg	540
	agcggcgcat	ccaccaagaa	agcgagctgn	acttctacct	nttcangctt	attgccgcng	600
	accgtganaa	ggaaacttga	aaa				623
25	<210> 404						
	<211> 703						
	<212> DNA						
	<213> Homo sapiens						
30	<400> 404						
	cgtgctcacg	gattttatta	cacagatagn	ggcggaatg	gcctcagccc	agccccacct	60
	cacctgcttt	tccagcccac	aaagggggac	gatcacggcc	cagcaaaagc	gatgctgaga	120
	ggggaaacag	tccanagtcc	aacagcagaa	cttgggggaa	gcggtcgggg	tggccaggaa	180
	cataaactat	gtataggggc	cgggggcttc	tgcccagggc	tcccctggac	caggacgcca	240
35	ggtagggcag	ggaacctcag	tagtcctcca	cccagccatt	ctcagagatg	aatgcgtcaa	300
	taacctcctt	catagccaag	ttggggatga	gctgttcctg	ggtcaggggg	ctccgggtca	360
	cggggtcaaa	atgaccacca	cgctgcaggt	gctcctcgat	gtccttgccg	tcgtagggtga	420
	tgccactggg	cgtgatgcac	ggctcccgcg	tcggctcaaa	gctgatcttg	ccacacaggt	480
	aagtcgggga	tgtctcgtt	cttcctcttt	catccacctg	aaaaaaaaag	ctcgtccatg	540
40	tccgccatgt	acttgtcgtg	cttggcctca	atgcaagcct	gctgggcccc	ggacgtggct	600
	tgtcgtcctc	ataccctcgt	tggtttcctt	ggcactnttt	cancttcctt	tcacgcttcc	660
	gcgggaatta	acctggaaa	gaagaatgca	cttcctnttc	tgg		703
45	<210> 405						
	<211> 700						
	<212> DNA						
	<213> Homo sapiens						
	<400> 405						
50	aacctcaaa	gaattctaga	agaatctcca	tctgaagcag	aagatttcat	ttctggaatt	60
	acacagacta	tggtagaagc	tgtagctgaa	gtagaaaaaa	atgaaactgt	ttcggaaata	120
	ttgccatcaa	cttgatttgt	gacgttagta	ccagggaattc	ccactgggga	tgagaagaca	180
	gtggacaaaa	agaatatttc	tgaaaaaaaa	ggtaacatgg	atgaaaagga	ggagaaggaa	240
	tttaatacta	aggaaaccag	aatggatctt	caaataaggaa	cagagaaggc	tgaaaagaat	300
55	gaaggtagga	tggtatgcaga	aaagggtgaa	aagatggcag	caatgaaaag	aaagcctgca	360
	gaaaacactt	tattcaaggc	atacccaaat	aaaggagtgg	gtcaggctaa	taagcctgat	420
	gaaactagta	aaactagtat	tctggctgta	tcagatgtat	ctagcagtaa	accaagcatc	480
	aaggctgtta	tagtctcttc	tcctaaggca	aaagctacag	tttcaaaaac	tgaaaatcag	540
	aaaagttttc	caaaatctgt	gcccagagat	caaataaatg	ctgaaaagaa	actttcagcc	600
60	caangaattt	ggtctgctta	aaccacaag	tgccangtca	ggctttggca	gaaagccagc	660
	agtaaaattca	aacctactca	gagccagtct	taccaaaggga			700
	<210> 406						

<211> 725
 <212> DNA
 <213> Homo sapiens

5 <400> 406
 ggatttttaaa tatacagtag gaacatttat ttttaacactt ctaaaagata tttctccatg 60
 cctgatgatt tgatataaaa atcaaaccga tcatactttc cccatcagtc tctctacatt 120
 tagggcaatc agaaatttgt acaacacgaa tatttgcttc tgaaacgaaa attacaaatt 180
 aaatgataac aaaaatacac aaatcaactg gaccctaaac aaatttctag tgaattcttt 240
 10 cctttccccc aatcacctag agcttctttc ttcagcctca ttctgctcct tttcctttct 300
 ttgcttggtc atgaatttct cagtattttg cttatgacgt gtactcttgc agtgatttgt 360
 cattgttttt tcacctgagt agaagaggga acaaattgga cagaagaatc cagccttagg 420
 tcaagaaagt tcaattcctc agggacatca gacgccactg atttgccctga agaagagtct 480
 tcagtcttct tgcgttttct ctctggttct gaatccttta atccagattc ctcacaaact 540
 15 tcaactcatc ggaaggcctc ttcacctttt gctggttctg cacaacagct ttttctgatg 600
 gcagagtttt ccaattctaa ctctcttttg gtggagttaa gctgttaaan gnccttctnat 660
 catgggtttt aganccttct ccataacatt ctcatattact gggcccactt tgggacaagg 720
 attca 725

20 <210> 407
 <211> 761
 <212> DNA
 <213> Homo sapiens

25 <400> 407
 gttttttttt ttttttttaa cttttcctta tgagcatgcc tgtgttggtg tgacagttag 60
 ggtaataatg acttggttgt tgattgtaga tattgggctg ttaattgtca gttcagtgtt 120
 ttaactctgac ncaggcttat gcggaggana atgttttcat gttacttata ctaacatttag 180
 ttcttctata ggggtgataa ttgggtccaat tgggtgtgag gagttcagtt atatgttttg 240
 30 gatttttttag gcagtgggtg ttgagcttga acgctttctt aattggnggc tgccttttagg 300
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 360
 gctgttctct ttgggactaa cagttaaact agaactcatg gcatatgatt acaccctatg 420
 gttatggaaa aaaacgaata ttcataattt gtattatgac ctaagtgtat atccaagctg 480
 atcaattcat aacacttcag tgatgagatg tcagttgtac attcggctga actctcatca 540
 35 taactatgtc ctttccaaag ataggctnta tttaaagaaca ggatgaatgg aataatataa 600
 agtgattcta atgtgggttc attaagtagc tggcgtagca ttccatgttc naccttttga 660
 catttatatt ctcatntcaa ccccttttta cacgtngaaa cacaatctcg ctcttgaagt 720
 cttactgcct gannttggga aacctgtat ttaatatatt c 761

40 <210> 408
 <211> 737
 <212> DNA
 <213> Homo sapiens

45 <400> 408
 gnnacnnatt ctgctctgn cncncnngct ggagtgcnaa ncnagantct ggntggattg 60
 aatgatgnct gctgcntnat naggggnanat gggaatcctg ngccgcttta tgccattcnt 120
 gaacnagtaa ttcttcacnc tgggtatttta tgnctggngg cttcangan aaancatgaa 180
 tttttcttnt aaaataanna ttctggtgac ccnnacnntt ggnaanannt tcaacntnag 240
 50 gggatgctng gncnggcnc ctancntgan ttgngantaa anancngggc tgggtggtct 300
 ccnaaanaan nttcttacng ntggcncctc angannttct nggttctgnt ttencttttt 360
 catattgtna tataccggtt tttaaanggg tattggaant aaatatcncc ncatttttct 420
 cttttangnn aaganggtgc nttttccnnt cnaaaaaatg aanntcnatt ggtatcttgn 480
 ntttgggtgc ngctttnttn tgggcntnaa cnaattgcng gtgnagcnc atanttttgn 540
 55 nttggagggtg aaaaaatttc tgaacccaaa acnctgcnng ggtcnnnggg ggttgggtcnc 600
 nttatcttgg tccgttttgn ancnttngtt ccaacttccc tcatttggcc cttggnttcn 660
 cngtgggcnn tttgggcng ntcngnaaa cccatgnttt ttctttttta ancnnntcc 720
 cgccttaaat gganatt 737

60 <210> 409
 <211> 712
 <212> DNA
 <213> Homo sapiens

<400> 409							
	gcggcccggc	aagcggcggt	gcggggtagg	ctgctttcct	gaggccggac	tcaacgggtc	60
	tcggctgagc	caccgggtga	gtcaccgcc	cagcccaaac	caggagattg	cgaggagcg	120
5	atgcggtgca	gcgcgatttg	cttgtaaag	catcacgaag	aggcagccca	gaatgaagaa	180
	agcaagcagg	agtgttggt	cagtgcctaa	agtgtctgca	ataagtataa	cgcaaacagc	240
	agaaaaaatt	aaacctgaaa	acagctcttc	agcatctacg	ggaggcaaac	ttgtaaaacc	300
	tggaacagca	gcatcattgt	caaagaccaa	gagcagtgat	gaccttttag	ctggaatggc	360
	cggaggggta	acggtgacta	atggtgttaa	aggaaagaaa	agcacctgcc	catctgcagc	420
10	accttcagca	tctgcccctg	ccatgaccac	cgtggagaac	aaatccaaga	ttagcacagg	480
	cacagnttct	tcaaccaagc	ggagcacttn	tacaggtaat	aaagaatcca	gttctactag	540
	agaaagatta	cgtgaacgta	cccgattaaa	ccagagcaaa	aaactacctt	ntgcagggtca	600
	nggagctaag	gcagtgccat	ttggcccaaac	gntcncccaa	ttgaactgnt	tccaaaatgt	660
	gacgtttcgt	ntganccaag	tnttaagtca	gaccattccn	aatccagtga	cn	712
15	<210> 410						
	<211> 563						
	<212> DNA						
	<213> Homo sapiens						
20	<400> 410						
	cctcctcctt	ctcctccttc	ctnttccnt	tcttcttctt	tctctctctc	tcgtttttng	60
	tttttttgga	gggggcagga	naggggggaa	caggatttct	ntntnttgnc	caggctgaag	120
	ngcagngng	caatcttggt	tcgctgnaac	ctntgcctgg	ganacatagn	gatactccag	180
25	cttaaaaaaa	aaanggctgn	gnnaaaacag	caagtctctc	ccaagggtc	caaaaagtgt	240
	ctgacctca	tnttccaaag	tctnagctnt	ntcagggtaa	caaaaactcag	nccaaaaatt	300
	taaggaatgg	gctttgaagt	caggctgccc	tgggctactg	cttaanaact	aactgngtta	360
	acctgaatng	aattagttaa	cttctttaan	cctcattttt	ggtntctata	aaatgaggan	420
	gacaataata	catntgccat	gangaactgn	gaaaacagtg	cctacaatgg	ggacctctc	480
30	tnttaccat	tatnacagct	ggcaggaaaa	atgcattcat	ttaacaactc	ttnccccacn	540
	tngnaattaa	aatatcctta	cta				563
	<210> 411						
	<211> 801						
35	<212> DNA						
	<213> Homo sapiens						
	<400> 411						
	ctcaatgaga	tttatataaa	gacagatagc	aagtcaatca	tgaggatgaa	gagtggctcag	60
40	atgtttgcca	aggaagattt	gaaacggaag	aagcttgtag	gtgatgggag	tgtgtttctg	120
	aagaatgcag	caggaagggt	gaaagagggt	caagcagttc	ttctcactga	catttttagtt	180
	ttccttcaag	aaaaagacca	gaagtacatc	tttgcatcat	tggaccagaa	gtcaacagtg	240
	atctctttaa	agaagctgat	tgtgagagaa	gtggcacatg	aggagaaagg	tttatctctg	300
	atcagcatgg	ggatgacaga	tccagagatg	gtagaagtcc	atgccagctc	caaagaggaa	360
45	cgaacagct	ggattcagat	cattcaggac	acaatcaaca	ccctgaacag	agatgaagat	420
	gaaggaattc	ctagtgaaga	tgaggaagaa	aagaaaatgt	tggacaccag	accccgagaa	480
	ttaaaagaac	acttcccaga	aggccaaaaa	atctctcttg	tggaaagaag	aaatgatatt	540
	ccggnatggc	tgatgcaccc	cctctccaga	gattgggtcc	acccatagcc	taagtntttt	600
	ccctccacac	aanagnttc	aangngccct	tatgaaaggc	ataatgagng	ngatcctcag	660
50	gttnggggng	gaatttgag	naccttggtc	gctgtacacc	ccttggcaaa	agtgcgccg	720
	ttctncccg	gagaanacct	tgngnttgcc	nctcaataat	ctcaagngga	aaggaaagga	780
	ttttgcccac	tttgacggt	c				801
	<210> 412						
55	<211> 735						
	<212> DNA						
	<213> Homo sapiens						
	<400> 412						
60	attttgtaca	gttggtattt	ttaattctcc	attttttggt	cacaaatgta	gtcttcattt	60
	taatgaagaa	gagaagtctg	tgtttcttcc	atgttgaaact	cctctgtcca	cttctgcagg	120
	tcttgtgcat	tatgcategt	ccataacttt	gcaaaataact	tgagtctctt	tcttttcgta	180
	tttattaatc	cttcagctc	ttttgacttg	tgagctgctt	tcttcaaaat	ttctccagga	240

	acatctgcta	gtttagccac	atttaatcca	taactccttg	ctgcaattcc	tctagttatt	300
	tggtaaagga	aggtgacaaa	atcagggact	tgttctgctg	tgcctggatc	cagtttgctt	360
	tcacccctcac	tgaccaagaa	tcccatgtgg	taattcccca	cctgggtgtga	gtaatttttt	420
	tctagttcac	aaactggcgg	ataatgggtg	acaaacaggg	ttaaggattt	cacatctctg	480
5	atgaaatact	caagtgtagc	ataggcaatg	gcaattccat	catgaagtgc	togtccctct	540
	tcctaagttc	atccaagata	accaaggact	gngatgggtg	ttttctgatt	atttctgctg	600
	ngtcagtcaa	gttcttccat	aaatggactc	cgctctttat	atataattggc	tgcagcaccc	660
	atncttggtg	aaaatgccat	cccacaatcc	aatttgtcgc	tttttctg	cagggacctt	720
	anggagccaa	tctgg					735
10		<210>	413				
		<211>	752				
		<212>	DNA				
		<213>	Homo sapiens				
15		<400>	413				
	tcaacgggtc	tcggctgagc	caccgggtga	gctcaccgcc	cagcccaaac	caggagattg	60
	cgagggagcg	atgcgggtgca	gcgcgatttg	cttgtaaatg	catcacgaag	aggcagccca	120
	gaatgaagaa	agcaagcagg	agtgttggct	cagtgcctaa	agtgtctgca	ataagtaaaa	180
20	cgcaaacagc	agaaaaaatt	aaacctgaaa	acagctcttc	agcatctacg	ggaggcaaac	240
	ttgtaaaacc	tggaacagca	gcacatttgt	caaagaccaa	gagcagtgat	gaccttttag	300
	ctggaatggc	cggaggggta	acggtgacta	atggtgttaa	aggaaagaaa	agcacctgcc	360
	catctgcagc	accttcagca	tctgcccctg	ccatgaccac	cgtggagaa	aaatccaaga	420
	ttagcacagg	cacagcttct	tcaaccaagc	ggagcacttc	tacaggtaga	ggatgaatac	480
25	cgagccttca	agaagaagct	aagaaacaaa	ttgaagattt	gaatatgacg	ttagaaaaat	540
	taagatcaga	cctggatgaa	aaagaaacag	aaaggagtga	catgaaagaa	accatctttg	600
	aacttgaaga	tgaagtagaa	caacatcgtg	ctgtgaaact	tcatgacaac	ctcattattt	660
	ctgatctaga	gaatacaggt	aaaaaactcc	agganccaaa	gcncgacatg	ggaaagagaa	720
	attaaagaca	cttcccanga	aaactttcgg	aa			752
30		<210>	414				
		<211>	690				
		<212>	DNA				
		<213>	Homo sapiens				
35		<400>	414				
	aacctttcct	tatgagcatg	cctgtgttgg	gttgacagtg	agggtaataa	tgacttggtg	60
	gttgattgta	gataattggc	tgtaatttgt	cagttcagtg	ttttaatctg	acgcaggctt	120
	atgcggagga	gaatgttttc	atgttactta	tactaacatt	agttcttcta	taggggtgata	180
40	gattgggtcca	attgggtgtg	aggagttcag	ttatatgttt	gggatttttt	aggcagtggg	240
	tggtgagctt	gaacgcttcc	ttaattgggtg	gctgctttta	ggcctactat	gggtgttaaa	300
	ttttttactc	tctctacaag	gttttttcc	agtgtccaaa	gagctgttcc	tctttggact	360
	aacagttaaa	tttacaagg	gatttagagg	gttctgtggg	caaatttaaa	gttgaactaa	420
	gattctatct	tggaacaacca	gctatcacca	ggctcggtag	gtttgtcgcc	tctacctata	480
45	aatcttcccc	tattttgcta	catagacggg	tgtgctcttt	tagctgggtc	taagtagctc	540
	gtctggtttc	nggggtctta	nctttggctc	ttcttgcaaa	ggattttcta	gttaaatcat	600
	tatgcanaag	gnatangggg	gtangtcctt	gctatattat	gcttgggtat	taaattttna	660
	tcttttcctt	gcngggacta	tntntttttg				690
50		<210>	415				
		<211>	1243				
		<212>	DNA				
		<213>	Homo sapiens				
55		<400>	415				
	ctcacggaca	agaacctcag	ataggttaaa	taggattgag	aatcaggtgg	ccattcagcg	60
	gaagaagcag	tttgtggagc	gagccacag	ctactggctg	ctcaagcggc	tgtccaggaa	120
	cggggccccc	ctgctgcggc	ggctgcagtc	cagcctgcag	tctcagcgaa	gctcacagca	180
	gagagaaaa	gatgaggaga	tgaaggctgc	caaagagaag	ctgaagtact	ggcagcggct	240
60	gcggcacgac	ctggagcgcg	ctcgctgct	gatcgagctg	ctgcgcaagc	gggagaagct	300
	caagcgtgag	caggtgaagg	tggagcaggt	cgccatggag	ctgcggctga	ccccgctgac	360
	ggtgctgctg	cgctcagtcg	tggaccagct	gcaagacaag	gaccccgcca	ggatatttgc	420
	gcagcccgtg	agtctgaagg	aggtaccaga	ttatttggat	cacattaaac	atcccatgga	480

	cttctgccaca	atgaggaaac	ggttagaagc	tcaagggtat	aaaaacctcc	atgagtttga	540
	ggaggatttt	gatctcatta	tagataactg	catgaagtac	aatgccaggg	acacctgtgt	600
	ctatagagcc	gcggtgaggc	tgcgcgatca	gggaggtgtt	gttctgaggc	aggcccggcg	660
	cgaggtggac	agcatcggct	tggaaagaggc	ctcggggatg	cacctgcctg	agcggcctgc	720
5	tgcggcaccg	cggcgccctt	tctcctggga	agacgtggac	aggttgctgg	accccgccaa	780
	cagagcccac	ctgggcctgg	aggagcagct	gagagagctg	ctggacatgc	tcgacctcac	840
	ctgcgctatg	aagtccagcg	gctcccggag	caagcgggca	aagctgctca	aaaaggaaat	900
	tgcccttctc	cgaacaagc	tgagccagca	gcacagccag	cccctgcca	cggggccagg	960
	cttgaaggc	ttcgaagagg	acggagctgc	gctggggccc	ggaggcgggc	gaagaagtcc	1020
10	ttccgaggtt	ggagactctt	ctgcagccaa	ggaaaaggct	gcggagcaca	tcgggagact	1080
	tnccgagtgg	aggaggagtn	cccgaaagaa	gcgcttggac	gcaggtcttc	accaacngct	1140
	tttgggggtg	naagagccaa	ccangaaccc	ggccgggggc	cttgggggag	gaaggccaca	1200
	ccccgacgac	cttgggcctt	cgagttcaag	atcttctttc	aag		1243
15	<210> 416						
	<211> 843						
	<212> DNA						
	<213> Homo sapiens						
20	<400> 416						
	gtattcgtgga	aagggagagt	ggccactatg	tggagatgca	cgcccgctat	atagggacca	60
	cagtgtttgt	gcggcaggtg	ggctcgctacc	tgacccttgc	catccgtatg	cctgaagacc	120
	tggccatgtc	ctacgaggag	agccaggacc	tgcagctgtg	cgtgaacggc	tgccccctga	180
	gtgaagcgc	cgatgacggg	cagggccagg	tgtctgccat	cctgggacac	agcctgcctc	240
25	gcacctcctt	ggcgacggcc	tggcctggct	acacactgga	gactgccaac	actcaatgcc	300
	atgagaagat	gccagtgaag	gacatctatt	tccagtcctg	tgtcttcgac	ctgctcacca	360
	ctggtgatgc	caactttact	gccgcagccc	acagtgcctt	ggaggatgtg	gaggccctgc	420
	acccaaggaa	ggaacgctgg	cacatcttcc	ccagcagtg	caatgggact	ccccgtggag	480
	gcagtgatgt	gtctgtcagt	ctaggactca	cctgcttgat	ccttatcgtg	tttttgtagg	540
30	ggttgncctt	tgttttgnt	ttttattttt	tgctataaca	aaatttttaa	atatatatgt	600
	ncataatata	ttgagtaaaa	gagtatatat	gtatatacca	tgtatatgac	aagatgtttg	660
	tcctgggaca	cccaccaaga	ttgncatact	gggtttgggt	ggtttcacat	atgttggatg	720
	tagggctctt	gaatggatca	atcttggttg	gaggttctgn	gaaangttta	taatgtcctt	780
	gccaaggacc	tggtanaaac	actttatttt	ttatatatta	aanatttatg	gggggcctgg	840
35	gtg						843
	<210> 417						
	<211> 1241						
	<212> DNA						
40	<213> Homo sapiens						
	<400> 417						
	ggagcgcgca	cagtcggctc	gcagcgcggc	actacagcgg	ccccggcccc	gccccgcgcc	60
	ggccccggcg	caggcagttc	agattaaaga	agctaattga	tcaagaaatc	aagttctcagg	120
45	aggagaaggga	gcaagaaaag	gagaaaagg	tcaccaccct	gaaagaggag	ctgaccaagc	180
	tgaagtcttt	tgctttgatg	gtgggtggatg	aacagcaaa	gctgacggca	cagctcaccc	240
	ttcaaagaca	gaaaatccaa	gagctgacca	caaattgcaa	ggaaacacat	accaaactag	300
	cccttgctga	agccagagtt	caggaggaag	agcagaaggc	aaccagacta	gagaaggaac	360
	tgcaaacgca	gaccacaaa	tttcaccaag	accaagacac	aattatggcg	aagctcacca	420
50	atgaggacag	tcaaaatcgc	cagcttcaac	aaaagctggc	agcactcagc	cggcagattg	480
	atgagttaga	agagacaaac	aggctctttac	gaaaagcaga	agaggagctg	caagatataa	540
	aagaaaaaat	cagtaaggga	gaatatggaa	acgctgggtat	catggctgaa	gtgggaagagc	600
	tcaggaaacg	tgtgctagat	atggaaggga	aagatgaaga	gctcataaaa	atggaggagc	660
	agtgcagaga	tctcaataag	aggcttgaaa	gggagacgtt	acagagtaaa	gacttttaaac	720
55	tagaggttga	aaaactcagt	aaaagaattta	tggctctgga	aaagtttagaa	gacgctttca	780
	acaaaagcaa	acaagaatgc	tactctctga	aatgcaattt	agaaaaagaa	aggatgacca	840
	caaagcagtt	gtctcaagaa	ctggagagtt	taaaagtaag	gatcaaagag	ctagaagcca	900
	ttgaaagtgc	gctagaaaag	acagaattca	ctctaaaaga	ggatttaact	aaactgaaaa	960
	catttaactgt	gatgtttgta	gatgaacgga	aaacaattag	tgaaaaatta	aagaaaaactg	1020
60	aagataaatt	acaagctgct	tcttctcagc	ttcaagtggg	gcaaaataaa	gtaacaacag	1080
	ttactgagaa	agttaattga	ggaaactaaa	agggcgctca	agtcccaaac	ccgtgttgaa	1140
	gaaaagatgt	tcgcccgttac	ccaggagaga	gatgatttta	aaaacaaaat	tgaagccgga	1200
	gaaaagaaag	ggaatgtctc	ctgtcaagag	ttatatgttg	g		1241

	<210> 418	
	<211> 1218	
	<212> DNA	
5	<213> Homo sapiens	
	<400> 418	
	tctgggaaga tggcgaaggt ctcagagctt tacgatgtca cttgggaaga aatgagagat 60	
	aaaatgagaa aatggagaga agaaaactca agaaatagtg agcaaattgt ggaagttgga 120	
10	gaagaattaa ttaatgaata tgcttctaag ctgggagatg atatttggat catatatgaa 180	
	caggtgatga ttgcagcact agactatggt cgggatgact tggcattgtt ttgtcttcaa 240	
	gagctgagaa gacagttccc tggcagtcac agagtcaagc gattaacagg catgagattt 300	
	gaagccatgg aaagatatga tgatgtata cagctatatg ataggatttt acaagaagat 360	
	ccaactaaca ctgctgcaag aaagcgttaag attgccattc gaaaagccca ggggaaaaat 420	
15	gtggaggcca ttctggagct gaatgagtat ctggaacaat ttgttgaga ccaagaagcc 480	
	tggcatgaac ttgcagaact ttacatcaat gaacatgact atgcaaaaagc agccttttgt 540	
	ttagaggaac taatgatgac taatccacac aaccacttat actgtcagca gtatgtctgaa 600	
	gttaagtata cccaagggtg acttgaaccc ctgcgaacttt caagaaagt tttgcacagg 660	
	cattgaaact gaacaacaga aatatgagag ctttgtttgg actttatatg cggcaagtca 720	
20	tattgtcttct aatccaaaag caagtgcata aacgaaaaag gcaacatgaa atatgtctagt 780	
	tggcagctag tcaataaaac agagcttatc agtttgcagg tcgaagtaag aaggaaacca 840	
	aatattctct taaggctgtc gaagacatgt tggaaacatt gcagatcacc cagtcttaag 900	
	gtttcaaaaa ctctttgaca ttagatttca caactgcaca attgaactta ttggcctgta 960	
	acttatttac taaatgtctc gtgctattta tatactacag taattttctg ttaagaaggc 1020	
25	agttgtaaag aatgtgttta tataaaccta aaaatgcctt ttactgctaa gtggggagat 1080	
	gggggaaatc catgggaagag agatttaaga cttatttgatt gtacatcagt ctcttcatat 1140	
	cacatatata tgtatatata taaaactcta atgtagtata accttggtta ataaaccatg 1200	
	atgattttatt aaacttgc 1218	
30	<210> 419	
	<211> 810	
	<212> DNA	
	<213> Homo sapiens	
35	<400> 419	
	gccgggagtt ggagcctgag gagttcgaga ccatgctgct gttctgcccc ggctgcggga 60	
	acgggctgat cgtggaggag ggacaacgct gccaccgctt cgcctgcaac acgtgcccc 120	
	acgtgcacaa catcacccgc aaggtaacaa atcggaagta cccaaaactg aaagaagtgg 180	
	atgatgtgct tgggtggagca gctgcctggg agaattgtga ctctactgca gagtctgtgc 240	
40	ccaaatgcga acatcctcgt gcttacttca tgcagcttca gaccgcgtct gcagatgagc 300	
	cgatgaccac cttctacaag tgctgcaatg ctacgtgtgg acaccgctgg agggattagg 360	
	gccaggatgg cccagctgcc ctagtgtgtg cttgccttgt cctcgggggt agatgcttag 420	
	ctggcagtat gagttgtgtg tcttgagggg ctttgtctagt gtggtggaaa gataaacctt 480	
	ttgaggtgaa gagccagggg gtcaggaaat atggcctatc tgccaggcag ggtggatgaa 540	
45	gtcatgaatg tctgggagtt tttctgtgtg gggaggagac agagacccat aactaaatat 600	
	gctctgtgta aagtcctatt ctttcatctt ccactttatt ggcagttgac attcccttac 660	
	tcccaatcaa cactcttaaa tatttgtact gtttgtaaaa cttagtacat gtccctaaat 720	
	atttaactgt tacttgtaaa cttgtgtaat ttattattta ttttaataca aattctgaat 780	
50	atttcattta aatgaaagtt ggaatattgc 810	
	<210> 420	
	<211> 1108	
	<212> DNA	
	<213> Homo sapiens	
55	<400> 420	
	gggggaggaa gaggagaaag gcnacggggg gggagctgtt gccgaagctg ccacagcaaa 60	
	agttctcccc cctccccct tccccctc tcaaggcccc tanaaaggtt ggagctgccg 120	
	ccgcctgcac tcggtgaccg cgcgactcgg cggcgcccc cgatagagg gaggaatcan 180	
60	cagcttgtaa attcaagcac gtnatctggc gggatggcg tttgcctaac gtatttaatg 240	
	gaggaatcgg atggcataag tgattaaagt ggtattgagg atttctgaag cctatgaaag 300	
	gtagaaactc aaccatgatt tctttttcaa ctctacagca ttcctttcct tgaagtcttc 360	
	gtttttacct tagtctcggg cagttatact taagcatgaa cattgacgac aaactggaag 420	

	gattgtttct	taaatgtggc	ggcatagacg	aaatgcagtc	ttccaggaca	atggttgtaa	480
	tgggtggagt	gtctggccag	tctactgtgt	ctggagagct	acaggattca	gtacttcaag	540
	atcgaagtat	gcctcaccag	gagatccttg	ctgcagatga	agtgttacia	gaaagtgaia	600
	tgagacaaca	ggatatgata	tcacatgatg	aactcatggg	ccatgaggag	acagtgaiaa	660
5	atgatgaaga	gcagatggaa	acacatgaaa	gacttcctca	aggactacag	tatgcactta	720
	atgtccctat	aagcgtaaa	caggaaatta	cttttactga	tgtatctgag	caactgatga	780
	gagacaaaaa	acaaatcaga	gagccagtag	acttacagaa	aaagaagaag	cggaaacaac	840
	gttctccccg	aaaaatcctt	acaataaatg	aggatggatc	acttggtttg	aaaaccctta	900
	aatctcacgt	ttgtgagcac	tgcaatgctg	cctttagaac	gaactatcct	tacagagaca	960
10	tgtcttcttc	atacaggtga	aaaaccattt	caatgtagtc	catngacat	gcgnttcata	1020
	ccanaantac	ctgctttaga	gacattgaaa	agattcntac	tggtgnaaaa	cccttttccc	1080
	ttngaatga	atgtgggttt	gagaattc				1108
	<210> 421						
15	<211> 680						
	<212> DNA						
	<213> Homo sapiens						
	<400> 421						
20	ggagatctaa	aggttgtgat	tgctgtgggg	aaaaatcaca	acctcaggaa	aagtcactca	60
	ttgggttaaa	gaatacagaa	aataatgacg	tagagattag	tgaaacaaaa	aaggcagatg	120
	tgcaagcacc	tgtaagccca	tcagaaaactt	ctcaagctaa	tccatattct	gaaggacaat	180
	tttttagatga	acatcatagt	gtgaattttc	atttgggtct	caaagaggat	aatgatacta	240
	ttaattgattc	attaattggt	tctgaaacca	aatcaaaaga	aaacactatg	caagaatctc	300
25	ttccttctgg	aatagtaaac	tttagagagg	aaatttgtga	tatggattct	agtgaagcaa	360
	tgtctcttga	aagccaggag	tcacctaatg	aaaattttta	aactgttggc	ccgtgtttag	420
	gagactcgaa	aaatgtttca	caggaatctt	tgagacaaaa	agaagaaaaa	ccagaagaaa	480
	ccccaaaaat	ggaactgagt	ctagagaaatg	ttctgttgaa	ggaaatgcat	gtaaagttaac	540
	agaatccaat	ctagagaaaag	caaaaactat	ggaattgaat	gtaggaaatg	aagctagctt	600
30	tcattggacaa	gagagaaccc	aaactgggat	ttctgaagaa	cngcctttga	agaaaattaa	660
	agaaatgggtg	actctgaagc					680
	<210> 422						
	<211> 783						
35	<212> DNA						
	<213> Homo sapiens						
	<400> 422						
40	gatattttcag	tatttaatat	atacaaaatg	tttctattga	acagaaccaa	ggtattcaca	60
	ataagctgca	gaaaaaccca	tgcaattaac	aaagaatgaa	atttataaat	taaaaacatt	120
	gncgtctata	cataatgtac	aatcatgcat	ttaaaaatga	atactatacg	tctcataaga	180
	ataaattttc	agtcaactgc	tgctgcatga	atatttgcta	atgcaaatga	ataaaatctt	240
	agtaaatctc	gcattaatat	tttaaccgcc	agaagttgaa	acttttctca	tttttcttga	300
	aagctgtcca	aagttgacat	atgcaggaaa	aattcaaat	ctttcgcat	tcatttgagg	360
45	tttttaacca	gtaacaaact	tcctaaacct	cagtcaccaac	aaacatgaat	taaacaaaca	420
	aacaaacaaa	aatataaaca	cctttatcag	ttcagcaaaa	attcaaaata	aaatgttcaa	480
	ttttacttaa	agtattttac	atgtttcacc	agaatatgca	cgggtttaag	aaagcatgaa	540
	ataaaatgta	agttctgtta	ctagttttgc	tttcacatct	cagttaaagat	aattaaattt	600
	cctgaaaaac	cacgcatagc	agccaagaat	acatattatg	aaaaaaaaaa	angatcttac	660
50	tnatggactt	acacattgaa	cttacataat	aatcctgncc	ntcanggggt	gnaatgtatc	720
	acctttgcaa	gagctcttnt	tgaaatggct	ntattcanaa	ctggttcccc	atcaanaaat	780
	ccg						783
	<210> 423						
55	<211> 767						
	<212> DNA						
	<213> Homo sapiens						
	<400> 423						
60	ccttttctgaa	cctgagaggt	gacatcgggt	ctcactggct	gcagtttaag	ctcttgacag	60
	aaatctcctc	cgctgtgttt	atattgactg	acaatatcag	taagaaggaa	tacaaattgc	120
	tgtactccat	gaaggagtca	accacaaaat	actacttcat	cctgagtcct	taccgtggga	180
	agcgcaacac	aaacctgaga	tttctgaata	agtttaattcc	tgtgctgaaa	atagaccact	240

	cacatgtcct	ggtaaaggct	agcagcactg	acagcgacag	cttcgtgaag	aggatccggg	300
	ccatcggttg	gaatgtgctg	cgggcaccct	gcaggcgggt	atctgtggag	gacatggcgc	360
	acgcagccc	caaaactggc	ctaaaggctg	acgaggactg	tgaggagtgt	cagaaagcga	420
	aagaccggat	ggagaggatt	accaggaaaa	tcaaagactc	ggatgcctac	anaaaggacc	480
5	agctgaggct	gcanggggac	ccctggagaa	aggcagccca	agtggagaag	gagttctgca	540
	acttcagtgg	gccgtggccc	ccctgagaan	cacaaggctg	actgaggcgg	cgggtgcttg	600
	aacttntaat	gcacaaaacc	ggcatgatcc	tctncggggn	gcaggagtta	tntcngggat	660
	aacaaccctc	ctgagtgena	caatcttctg	aggggattga	tgggccttgc	accggtggcc	720
	ancccantta	anaacctcgg	aacctttttac	cttnacaaac	acggggg		767
10	<210> 424						
	<211> 777						
	<212> DNA						
	<213> Homo sapiens						
15	<400> 424						
	catttaacag	acattttatta	agcgtctaca	atgtgccagg	ccctgggga	acagagctgg	60
	agaatgtaca	gtccctgccc	tcaaggagct	cacagtctgg	ggggacagac	atgtaaacac	120
	atgagttaca	acgcgctcg	tgaagtgtgt	ggcanaggta	taacaaagtg	ctgtggggca	180
20	caacagagcg	accagtgaac	tnttctctgg	caggggtcag	ggaagccttc	acagatcagt	240
	caataaatac	ggtgccatgg	gagtgccttg	cacaccacgg	gcactcacat	cttgaatgct	300
	ggtccactgg	aggcccttgg	gttgggctgg	agcaaggcct	acttctgctt	cctcaggaca	360
	acttccccac	ctntgtcctg	ggaccacctg	cccgcctggg	cctgcagtga	ctaaggacgc	420
	tgctcccact	ccaggggcca	gtgacagana	gcagctntac	agagggccca	ccccgcagga	480
25	tccttgacag	gagctganac	anaacaaact	gctgcttgtc	tncctaccct	gggggctgng	540
	atattcttgg	taacatcttt	taaaactggtc	tgtgangtca	ctttctnttt	ttaacacttg	600
	ttganganaa	ctncaaaacc	tttgnttttt	gctcggcttc	tcatgtcgaa	tgggcaccan	660
	ccatttttaa	ggcnccaaaa	cacaagcccc	acatgggtgc	cccattttaa	aaanggggtg	720
	gccacaanaa	naccttctta	aaccttgnaa	ctgggggttt	tttggaacan	ttaaaag	777
30	<210> 425						
	<211> 771						
	<212> DNA						
	<213> Homo sapiens						
35	<400> 425						
	gggtcccttg	gtctcgctcc	cccgcagatc	ttgcatctca	gcattgcgct	accacatcag	60
	ttgacattag	cacagctttt	ccattaggag	aacgaagtga	aactcctggt	agaacggatg	120
	atggctctgc	agaccgacat	tgtggactta	cagaggagcc	ccatgggccc	gaagcagggg	180
40	ggaacgctgg	acgacctaga	ggagcaagca	agggagctgt	acaggagact	aagggaaaaa	240
	cctcgagacc	agcgaactga	gggtgacagt	caggaatgg	tacggctgct	gcttcaggca	300
	attcagagct	tcgagaagaa	agtgcgagtg	atctatacgc	agctcagtaa	aactgtggtt	360
	tgcaagcaga	aggcgctgga	actgttgccc	aaggtggaag	aggtggtgag	cttaatgaat	420
	gaggatgaga	agactgttgt	ccggtgcag	gagaagcggc	agaaggagct	ctggaatctc	480
45	ctgaagattg	cttgtacaag	gtccgtggct	ctgtcagtgg	aaaccccgat	agcatgaatg	540
	cctctngact	taccacctgg	gcagcttatg	tntaaacctt	cacnggctca	acaacttctt	600
	taccacaaaa	aaantgaana	actggtggnt	tgagcactta	accctgcnc	ttctngaaaa	660
	tgccctnnag	gcacttggan	ggacaagacc	aaagttnacc	ggcctnactt	gacttgttca	720
	aaatggaaaa	aaaacaaac	tncttganca	gcctcttatg	tgggggactt	a	771
50	<210> 426						
	<211> 737						
	<212> DNA						
	<213> Homo sapiens						
55	<400> 426						
	cgcggccgc	cgcggccgc	tcaggtgaaa	tgacaatgga	tgctctgttg	gctcgattga	60
	aacttctgaa	tccagatgac	cttagagaag	aaatcgtaaa	agccggattg	aaatgtggag	120
	ccattacatc	aactacaagg	ttcatttttg	agaaaaaatt	ggctcaggct	ttactggagc	180
60	aaggaggaag	gctgtcttct	ttctaccacc	atgaggcagg	tgacacagct	ctcagccagg	240
	accacaaaag	gattttgaag	ccagctgaag	ggaacccaac	tgatcaggct	ggtttttctg	300
	aagacagaga	ttttggttac	agtgtgggct	tgaatcctcc	agaggaggaa	gctgtgacat	360
	ccaagacctg	ctcgggtgcc	cctagtgaac	ccgacaccta	cagagctgga	gcgactgcgt	420

	ctaaggagcc	gccctgtcta	tgggggtgtgt	ccagtgtatg	aggacgtccc	agcgagaaat	480
	gaaaggatct	atgtttatga	aaataaaaag	gaagcatttg	caagctgtca	agatgatcaa	540
	aggggtccgat	ttaaagcttt	ttctccanan	aaaacgctga	aaaatttgct	naaagaattt	600
	gtgaatattt	ccttntccaa	caaaacgtct	ttacactntt	tctgtgaaaa	caacttcact	660
5	cttttcaatg	acaagttgaa	aaangttggc	ttgncgaata	aaacagcacc	aanagccagc	720
	gacagttcca	aaatccc					737
	<210> 427						
	<211> 660						
10	<212> DNA						
	<213> Homo sapiens						
	<400> 427						
	agggccaaaa	cgttttactt	tccatttgaa	tttacaacca	tatacagaca	atatggtaag	60
15	attttagaga	aaacagatca	tcactacgaa	tatccatatt	ctgatttctt	ttganaacca	120
	aggtgccttt	taaaatgcgg	ctttttanaa	tagcatgtgt	tgtttctgtc	tgggatctan	180
	atcttgtctg	ctacaaaaca	aatgaacaca	ccctgtgtaa	caaaatcgaa	ttttaacatt	240
	taaatcttga	ttccaatatt	cctgacctat	ctcttgtcat	atgaaanaaa	gaagcctttt	300
	tttaaaacaa	agtttcaatt	cagaattttt	acaaacaaaa	acaatcctgc	gtctacttaa	360
20	tatccctgta	tatcctcaaa	aagcaagttc	aggaaattta	aaaatgattt	ataaaaggca	420
	ctgaagttag	caaaagcatt	ggtgggtttt	cattttggat	taaaactctg	aaatgttcac	480
	agagaaaacaa	ctgtgtgagc	agttgcccgt	aacacacagg	aagaaaccga	cctccaggca	540
	gcacctcctg	aacacctcag	cgntcctcc	acattccaac	cacaaacctt	nattcaaagt	600
25	caagggggaa	ngcttcaagt	cagccccggc	aaagaaacca	aaaaanggga	ctcaaacctt	660
	<210> 428						
	<211> 608						
	<212> DNA						
	<213> Homo sapiens						
30	<400> 428						
	gtcctcgagg	ggccttcatg	cagctcatca	cagtggctga	gggcttcagc	caggacctgg	60
	gctgtgacca	catcctgggt	atagactccg	ggggcttgat	aggtggggcc	ttgacgtcag	120
	ctggggacag	atttgagctg	gaggcttcct	tggccactct	gctcatggga	ctgagcaatg	180
35	tcaccgtgat	cagtctagct	gaaaccaagg	acattccagc	agctattctg	catgcatttc	240
	tgaggttaga	aaaaacgggg	cacatgcccc	actaccagtt	tgtataccag	aaccttcatg	300
	atgtatctgt	tcccggccct	aggcccagag	acaagagaca	gctcctggat	ccacctgggt	360
	acctgagcag	ggctgcagcc	cagatggaga	aacaggggcg	cggcttccgg	gcactggcag	420
	gcctggcctt	ctgcgaccct	gagaacaaca	catctggcac	atccagcctg	tggcacggac	480
40	acctccatgg	ccgcagtgag	ctttggccta	cagtgaacc	atatttgaat	tgaagagatc	540
	ctactcgaaa	acatcaggaa	cngnttgctg	aacaaaaaca	aaaacattca	caactnattg	600
	acttgtga						608
	<210> 429						
45	<211> 757						
	<212> DNA						
	<213> Homo sapiens						
	<400> 429						
50	catttaacag	acatttatta	agcgtctaca	atgtgccagg	ccctggggac	acagagctgg	60
	anaatgtaca	gtccctgccc	tcaaggagct	cacagctctg	ggggacagac	atgtaaacac	120
	atgagttaca	acgcncctgc	tgaagtgtgt	ggcanaggta	taacaaagt	ctngggggca	180
	caacanagcg	accagtgaac	tnttcctggg	caggggtcag	ggaagccttc	acagatcagt	240
	caataaatac	ggngccatgg	gagtgccttg	cacaccacgg	gcactcacat	cttgaatgct	300
55	ggtccactgg	aggcccttgg	gttgggcggg	agcaaggcct	acttntgctt	cctnaggaca	360
	acttccccac	ctntgtcctg	ggaccacctg	cccgcctggg	cctgcagtga	ctaaggacgc	420
	tgctcccact	ccaggggcca	gtgacanaga	gcagctatac	agaggggcca	ccccgcagga	480
	tccttgacag	gagctganac	anaacaaact	gctgcttgct	tcctaccct	gggggctgng	540
	atattcttgg	taacatctct	gaagctggtc	tgtgaggtca	cttntctntt	taaacactgt	600
60	ttgaggagac	tccaaaccct	ctgtcttttg	ctcgtcttct	catgtcgaat	tggggcacca	660
	gccctttttt	naggcnccaa	anacacaacc	ccccatttgg	gtgnccccat	taaaaaagg	720
	gttgnccaca	aaaaaccttc	ttaaaccttg	aactggg			757

	<210> 430	
	<211> 757	
	<212> DNA	
	<213> Homo sapiens	
5		
	<400> 430	
	cgccgcntgc ggtcgtctta tggatccaaa gaattcggnc gagagagcag gaaaatggac 60	
	tcattaggga ggcaggcagt cattaccact cacactgtac ttccagggag acaccgatta 120	
	taagaagaga aactcagcgc tggggaagaa gacaaataaa aagaagtgtt aagaattgcc 180	
10	tttgggactc tgaaggctga agaattgatg aattgcaagt ttgtgcccc a tagctgcaca 240	
	gactgcctga agttacattt agagactgaa atcactgcac cttaaaaaca aaagattgag 300	
	ctgcactgta ttccctaattgt ttcatacatta ctaacaggat attcctcatg acattgctgt 360	
	ctgatctttg accatcagtc tgtgacctgc cccttctctt tacatgcagc cgctctctgc 420	
	tccttgcaca atgaacatct gcactaggcc caagccttgg agtaatttac ctgaagagtg 480	
15	caccattgat tttgaaacta ctgaagaaac ccaagacagc tgaaaaccan aaggctctga 540	
	ggagaatgag attactcncc cgggtggatcc agcgccaacc gggccttcct gctgaacttt 600	
	gaactgtttg tttcagancc acccttattc ctacacatt nactgacaan tntacgctca 660	
	accgggtatt tgatgtgaat cnttgcangg gatgaccacg cnttncagat taaccttcaa 720	
20	ntttaanaat tcggctcgaa ccttaaacag gcaaccg 757	
	<210> 431	
	<211> 719	
	<212> DNA	
	<213> Homo sapiens	
25		
	<400> 431	
	aaaagatttt tttgtaaaga agggttgtat ttagaggcca gtagctagag atccaaccag 60	
	tggacctctt gaagcactac caggccttaa ggccaccatc cgagggagac tgggaaaact 120	
	attattcacc caagcctccg gaaatgtaat gtaccagcag gcaaaaaaca gttcttcatg 180	
30	tagtacaaaa tgaacgaaa caaaaacaaa aacagaaagt aaaaatgaaa ccaaaacatt 240	
	tcttaaatc tagtgccata gcttttttgt ttgtttgttt tttgttgttg ttttgttttg 300	
	ttcataagaa agagagaaa atnctactta tccgtcagac acatgcaccc tcatgtggtc 360	
	gttgaactgc tcgatttggg caaactttgc tgggcagacg gagcagacgt aagtgggtccc 420	
	ctccgtgcag gccaccacgc ctggggggcc agcgcgggca cctgggggtg tgccctgcagg 480	
35	gggggtccca ttgctggcac tgtgcaaggc cacgtgtcgc tccaagaagg tcttgtgaga 540	
	aaacttnttt tttgcaatgt agcactcgta gggacttntc ttcccngngg aagcgcattg 600	
	gcacgttgan gggacctntt ntggggggaa ncacttgttg canaaactac actggnattg 660	
	ccctcactcc tgnngggggg caccatgtg ctttgataaa ggnaatncct ttttaagggg 719	
40		
	<210> 432	
	<211> 789	
	<212> DNA	
	<213> Homo sapiens	
45		
	<400> 432	
	caaagtggat ataggccttt tttgcatcat ctgcagccat ttacctggca tgagaagatt 60	
	aagaagaagg atccaaagtg tatatttgca tgtgaagaga tgtcaggaga agttcgggtt 120	
	agtagccatt tacctcaacc aaatagcctt tgtagttaa tagtagaacc catggaaaac 180	
	tggctacagt tgatgttgaa ttggggacct cagcagagag gaggacctgt tgaccttact 240	
50	ttgaagcagc caagatgttt tgtattaatg gatcacattt tgaatttgaa gatagtacac 300	
	atcctaaata tgacttctgc aaagataatt tcttttctgt taccacctga tgaagtcctt 360	
	cattcactac agtctcgtat tgagcgtgaa actggaataa atactggttc tcaagaactt 420	
	ctttcagaga caggaatttc tctggatcct cggaaaccag cctctcaatg tgttctagat 480	
	ggagttagag gctgtgatag ctatatggnt tatttgtttg ataaaaagta aaactgtata 540	
55	tgaagggcat ttgcttcag aagttatctg attggtaaat tatattgtca ggacancaaa 600	
	tacagcttcc attatnaact gcgtaaaggg gggctgaaca ctgcactatg tgtctggact 660	
	aaaaaanant atacangctc tttnanggac aaaggggaca tggtaanctt tttaaattta 720	
	tgctacttac caaatgaaa acatttgtct cacttccacc cctgaagctt aattgggttt 780	
60	ttacaaaac 789	
	<210> 433	
	<211> 734	
	<212> DNA	

<213> Homo sapiens

<400> 433

	aattttaaaaa	ccattttaata	cacaaagtga	aaaactatta	gaatataaaa	gcatttcaca	60
5	ttttttaaga	caaataatat	cttctaaatt	acttagcaga	tgatagaggt	ccacagtcct	120
	ttctctgaaa	cccttggggc	aagttgtttc	agaattatga	aatttttagat	tttanaaaag	180
	tagttttgtg	catataccat	actacattaa	ccagccctca	ccacagtctg	tggcagcagc	240
	cctccctctc	atcatcaagc	agcaaaataa	aggaatattc	acactaaatg	ggataaaaaag	300
	attcaaggtc	agttcagatt	agattgcaag	caaatagaatt	ttgtcaccaa	gcttatggaa	360
10	accttgtttt	cagagctttt	tggatttttg	aattacaatt	acagataaag	gagtgcagac	420
	ctttataaat	ttgtatgaca	agacatgaaa	gattgtttta	acaaatgact	catttttaca	480
	aatgaaaaaa	catgtaattt	tcaaatacat	tataaattaa	caggcatctt	ctctttgata	540
	ttattaaatg	tcattcttaa	tacatatata	cacaacaaca	tgattttatga	aagccaactt	600
	atattagaag	cncagatncn	caatnccttc	gatgagaang	gggatactgg	taaatTTTca	660
15	gtgggatttn	aaaatgatta	ccccaaactc	cttntgatgn	cncggaagaa	aaancctggt	720
	cagtgaacc	ccaa					734

<210> 434

<211> 665

20

<212> DNA

<213> Homo sapiens

<400> 434

	aagaataagt	ggagcctgag	ctctcgatag	aagtatgtga	agaaaaagct	tcagctgttc	60
25	ttccccctac	ctgtatacag	cttcttgaca	gcagtaactg	gaaagaaagg	ctggcttgta	120
	tggaagagtt	ccagaaggct	gttgagctaa	tggaccgaac	tgaaatgcca	tgccaggcat	180
	tagtgaggat	gctagccaag	aaacctggat	ggaaagaaac	taattttcag	gtgatgcaaa	240
	tgaagcttca	tatagttgct	ttgattgccc	agaagggaaa	tttttccaaa	acgtcagctc	300
	agggtgtatt	agatggcctt	gtggacaaga	ttggagatgt	gaaatgtggg	aacaatgcaa	360
30	aagaagctat	gacagcaata	gccgaagcct	gtatgttacc	atggactgct	gaacagggtg	420
	tgtcaatggc	tttctcacia	aagaatccca	aaaatcagtc	agaaactctg	aattggctat	480
	caaatgccat	aaaagaattt	ggtttttctg	ggttgaatgt	caaagctttc	attaacaatg	540
	tgaagacagc	tcttgctgca	acaaaccag	ctgtgaggac	tgctgccata	accctgcttg	600
	gcgtgatgta	tctgtatggt	ggnccctctt	ttgccaaatg	gtcttttgan	ggatgaaaaa	660
35	ccctg						665

<210> 435

<211> 785

<212> DNA

40

<213> Homo sapiens

<400> 435

	acacttacct	ggtaccccc	cgggtggaaa	atcgatgggc	ccgcggccgc	tctagaagta	60
	ctctcgagca	tgctcatatc	cttttcagaa	agattttcaa	tcagtttgaa	cacctgatcc	120
45	ccatgtacat	tgtacaccgt	tacaatgggtg	ttgagtgcag	cattgcgtac	agcattgtca	180
	cggctccta	tgtgaacagc	tatttccttt	aaggcttttc	ctgggggttg	ttggcaaca	240
	ttcatgccat	aggactcaac	cagacatccc	agctcttcca	ggcactctgc	tctctgctta	300
	gagtttttgg	atttggttcc	ttccatgata	aagggaacaa	tcttgctagc	tgggtagaca	360
	aggcacatcc	ggttcaggat	ggcacgaaca	tctttacgaa	tgacatcctt	tggttctcca	420
50	accttgacga	caagataggg	gatgaaggaa	gatgcttcat	tctcagtaag	atgatattct	480
	tcttcactta	gcaagggtgaa	gagcaatttt	aaatattcta	gtgctttcat	caggacgctt	540
	gtattgggtg	caaaaaacct	cagggtgaagc	cactttaaga	taagatccag	gcaaccaata	600
	actccttctt	tttactctc	caagtgatca	accataacag	caagggtctt	gttatgatgc	660
	tgaagtcctg	agtgaacat	ctcatcttgt	aaccatttag	ccacacagct	agacatttga	720
55	gtcttttagtt	gctcaatgga	ttcatccccg	tggggnagta	aaattccctt	tagcaccttc	780
	aatcc						785

<210> 436

<211> 717

60

<212> DNA

<213> Homo sapiens

<400> 436

	atgttttattc	atatttaggt	tattttattaa	tgaaaatata	tgacattttc	aggaatacaa	60
	attttgcacc	ctgatgacct	caaatgcgtg	caacaagatg	tttaatacag	aaaataaacac	120
	aaaaactgtt	gttacagtgg	ttagaatttt	taactttaaa	aaaccatgaa	tttgtattgt	180
	tttaattgca	caataaaata	atgttgatat	atacttaagc	ttaaattaat	tccaacaggc	240
5	aaacattttc	caaccanag	tgtggctgat	gctgggtcan	ctgactctat	tttggttcac	300
	accaactttg	atgtctaggc	tattcagcat	ctacctagaa	aatctcaatc	gttccaagca	360
	taccgtgaat	tttgtgattt	ctcagaagat	tttcggagtt	aaaagaagtg	tttatatcac	420
	ttaatatcca	acattttctaa	aggggggaaa	accccccatc	tattatcaat	gacatttccc	480
	aagtccttgc	accaggccct	tagtcaccag	gttcccacgt	tttgttgctt	tcctaccgtc	540
10	tcaaaccagg	ttcatgaaag	catttgaaca	gagttcagtc	ttcattttac	aaaaaaaaaa	600
	aattccta	agtggctaaa	atctgcaaat	ttctccattc	gattacaatc	tacaaagata	660
	aaccagcatt	cccttctctt	tctctctttt	gggtactttt	cccttatccc	tactggg	717
	<210> 437						
15	<211> 709						
	<212> DNA						
	<213> Homo sapiens						
	<400> 437						
20	ctgaagagtg	cagctgcctg	aaccgagccc	tgccgaacag	ctgagaattg	cactgcaacc	60
	atgagtgaga	acaataagaa	ttccttggag	agcagcctac	ggcaactaaa	atgccatttc	120
	acctggaact	tgatggaggg	agaaaactcc	ttggatgatt	ttgaagacaa	agtattttac	180
	cggactgagt	ttcagaatcg	tgaattcaaa	gccacaatgt	gcaacctact	ggcctatcta	240
	aagcacctca	aaaggcaaaa	cgaggcagcc	ctggaatgct	tacgtaaagc	tgaagagtta	300
25	atccagcaag	agcatgctga	ccaggcagaa	atcagaagtc	tggtcacctg	gggaaactat	360
	gcctgggtct	actatcacat	gggcccactc	tcagacgttc	agattttatgt	agacaagggtg	420
	aaacatgtct	gtgagaagtt	ttccagtccc	tatagaattg	agagtccaga	gcttgactgt	480
	gaggaagggg	ggacacggtt	aaagtgtgga	ggaaaccaa	atgaaagagc	gaagggtgtgc	540
	ttttgagaan	gctctggaaa	agaagccaaa	gaacccagaa	ttcacctctt	ggactggcaa	600
30	ttaccaagct	cccgtctgga	caactgggnc	cccattctta	agaacgccat	ttgacccttn	660
	tganggcaaa	gcccattcgg	ctggaattcc	tgacaaccca	gtaaccctt		709
	<210> 438						
	<211> 634						
35	<212> DNA						
	<213> Homo sapiens						
	<400> 438						
40	gccgccgccg	ctaccaccgc	gttcgggtgt	agaatttggg	atccctgcgc	cgcgttaaca	60
	atgaagcaga	gttcgaacgt	gccggctttc	ctcagcaagc	tgtggacgct	tgtggaggaa	120
	accacacta	acgagttcat	cacctggagc	cagaatggcc	aaagttttct	ggtcttggat	180
	gagcaacgat	ttgcaaaaaga	aattcttccc	aaatatttca	agcacaataa	tatggcaagc	240
	tttgtgaggg	aactgaatat	gtatggtttc	cgtaaagtag	tacatatcga	ctctggaatt	300
	gtaaagcaag	aaagagatgg	tcctgtagaa	tttcagcatc	cttacttcaa	acaaggacag	360
45	gatgacttgt	tggagaacat	taaaagggaag	gtttcatctt	caaaaccaga	agaaaataaa	420
	attcgtcagg	aagatttaac	aaaaattata	agtagtgctc	agaaggttca	gataaaacag	480
	gaaactattg	agtccaggct	ttctgaatta	aaaagtgaga	atgagtcctt	ttggaangag	540
	gngtcagaat	tccagcaaaa	gcatgcncaa	cagcaacaag	ttattcnaaa	gaatgtcagt	600
	ttattgggtac	attggttcaa	aataacccaa	cttt			634
50	<210> 439						
	<211> 733						
	<212> DNA						
	<213> Homo sapiens						
	<400> 439						
55	actcaacatt	cattgtattt	attttactaa	acagtatggg	tcaaaaaaac	acaaaccgga	60
	aaacctttat	ttaaaactag	tcaactaac	tggatggggc	tcactccatc	ccatcccacc	120
	cccgatcttt	ctatatatat	ggagctggaa	ccctatcaga	cagcgagcat	tcacgtacac	180
60	tttgtctttc	ctgttgaaca	tgaataaacg	tctttgaaca	taaatgaact	tctctgaacc	240
	aaaagaaaca	aatgaagttt	tacaagatac	aggcacttta	tgttcccagt	tttaaaaaata	300
	agccaagtga	aaaatattta	ataaaaaata	ctggagcaga	gaaagcttta	ggagtataac	360
	cattagttca	aatgacttac	actcaatgca	aatagacagc	atcaaacagg	aaaacaaaca	420

	aaaatttaac	tgagggttaat	ggctcgtat	gtataaaaaa	gatatccaat	ttacccaaat	480
	tggagaaaaa	tggccatttg	aatccaactt	aaagatacgc	caataatgtg	cattacatct	540
	gcgtaactat	gcagctgagt	aacacctgaa	agctctgcaa	gagtggtgtg	ttagtgagaa	600
	aagcaaaagg	tgcttttatt	ccacagtatc	tgattaaaca	aaacaaagca	atttacaaaa	660
5	aaagtaccaa	atgatacttt	aaaataaata	gttcatcatt	ttgatgaata	tatacatgta	720
	aaggccactt	tct					733
	<210> 440						
	<211> 695						
10	<212> DNA						
	<213> Homo sapiens						
	<400> 440						
	ggcggcagga	cctgtacagt	gcccgggacc	tgaggggcct	caccgtggag	catgccattg	60
15	attccttccg	agaaggggag	acaatgattc	ttaccctcaa	ggacaaaggc	gtgctgcagg	120
	aggaggagga	cgtgctgggt	aacgtgaacc	tggtggataa	ggagcgggca	gagaaaaatg	180
	tggagctgcg	gaagaagaag	cctgaatacc	tgccctatgc	cgaggacgag	agcgtggacg	240
	acctggcgca	gcaaaaacct	cgctctatcc	tgccaagta	tgacgaagag	cttgaagggg	300
	agcggccaca	ttccttccgc	ttggagcagg	gcggcacggc	tgatggcctg	cgggagcggg	360
20	agctggagga	gatccggggc	aagctgcggc	tgagggtcca	gtccctgagc	acagtggggc	420
	cccggctggc	ctccgaatac	ctcacgcctg	aggagatggg	gacctttaaa	aagaccaagc	480
	ggaggggtgaa	gaaaatccgc	aagaaggaga	aggaggtagt	agtgcgggca	gatgacttgc	540
	tgctctctcg	ggaccagact	caggatgggg	actttggttt	caaactgcng	ggaacggggg	600
	cgccgcccaa	gtgtccgaaa	ntggaagaag	aagaaagaac	ctttgcctta	anccctgnc	660
25	gtcggacgac	accccggaag	ggaagaacat	tggac			695
	<210> 441						
	<211> 623						
	<212> DNA						
30	<213> Homo sapiens						
	<400> 441						
	gggggaggaa	gaggagaaag	gncaggggt	gggagctgtt	gccgaagctg	ccacagcaaa	60
	agttctcccc	cctccccctt	tccccctctc	tcaaggcccc	tanaaagggt	ggagctgccg	120
35	cgcctgcan	tgggtgaccg	cgcgactcgg	cgcccgcccc	cggatagagg	gaggaatcan	180
	cagcttggaa	attcaagcac	gtnatctggc	gggatgggcg	tttgccaaac	gtatttaatg	240
	gaggaatcgg	atggcataag	tgattaagggt	ggtattgagg	atttctgaag	cctatgaaag	300
	gtagaaactc	aaccatgatt	tctttttcaa	ctctacagca	ttcctttcct	tgaagtcttc	360
	gtttttacct	tagtctcggg	cagttatact	taagcatgaa	cattgacgac	aaactggaag	420
40	gattgtttct	taaatgtggc	ggcatanacn	aatgcagtc	ttccaggaca	atggttntaa	480
	tgggtggagt	gtctngcccn	ctactgtgtc	tnggaaagct	accaggattc	annactttna	540
	agatcgaang	nntgcctcnc	cangaagatc	cttgctgcna	atgaagtgtt	tacaaagaaa	600
	ggtgaaatgg	agacaacacg	gat				623
45	<210> 442						
	<211> 742						
	<212> DNA						
	<213> Homo sapiens						
50	<400> 442						
	aacttggtgt	gggtggaata	gcaagtttct	gatctaaaac	aagtaatgca	ttgcttctat	60
	aaaggtgaca	acatgtaagg	cagttcaaag	aatgctgact	aaccaaacga	aatgcagtta	120
	ttggattatc	ttgctattca	tatcagctta	acttggtatt	acgcattgct	cttaaatctg	180
	tacagcactc	catttacaca	gagtaacccc	actcttgatt	aatctgttct	aaagtgccag	240
55	tattattttac	actttttttt	ttttagccaa	aagtctggcc	agttgtggca	tcagggtgaag	300
	atgtcatccc	agctctatta	tcatttacat	tcaccaaggg	aaattctgaa	aattcagcac	360
	ttgtccctgg	tcccgaagg	ttcacctgtc	cattggcagt	gctaaattga	gtagctattc	420
	cagctcttga	tccatgatag	ggagcacgga	agggctgttc	aaaggagctc	atttggttaag	480
	cttggtggac	aggctgggac	tcagctttct	tctgagaagt	cacttgatcc	anaaagtcct	540
60	gtgttgatgt	ggcnaaaaca	tggtttgtct	catcacctga	aaagggaat	gagtgctgtg	600
	aatcaccaac	tattagtcca	aagtgggact	tatctggagt	tgctcttagn	ggaaaattca	660
	ttcctggatc	gaaagctatt	gatgggcatg	gnggcatana	cctgcttgtc	tatggaaaaa	720
	aaagcctggc	tggatttggg	ga				742

	<210> 443	
	<211> 652	
	<212> DNA	
5	<213> Homo sapiens	
	<400> 443	
	gtcacttccg gcttccttca gtccgctggt cccgagcacg agctgtgagg ggattcactt 60	
	gtgtgcgga ctcctcgga ccatggcgct cctttccctt gcacctgtta acatctttaa 120	
10	ggcaggagct gatgaagaga gagcagagac agctcgtctg acttctttta ttggtgccat 180	
	cgccattgga gacttggtaa agagcacctt gggacccaaa ggcatggaca aaattcttct 240	
	aagcagtgga cgagatgcct ctcttatggt aaccaatgat ggtgccacta ttctaaaaaa 300	
	cattggtggt gacaatccag cagctaaagt tttagttgat atgtcaaggg ttcaagatga 360	
	tgaagttggt gatggcacta cctctgttac cgttttagca gcagaattat taagggaagc 420	
15	agaatcttta attgcaaaaa agattcatcc acagaccatc atagcgggtt ggagagaagc 480	
	cacgaaggct gcaaganagg cgctgttgag ttctgcagtt gatcatgggt cccatgaant 540	
	tnaattccgg cnagaattaa tgaatattgn gggcccacat tatcctcaaa acttcttact 600	
	catnacaaaa accactttac aaaagntagc tgtanaanca gttctcaaac tg 652	
20	<210> 444	
	<211> 740	
	<212> DNA	
	<213> Homo sapiens	
25	<400> 444	
	gaacagaatc atattcaata tttattttaa aagaaaaaag agaagctaaa tgtgctggtt 60	
	aattttttgt tggcttactt gttggtctgt gatcgggtgt gtcaggcagc tgcactccca 120	
	tgctttgtaa aagattggaa gcaggtcctg ccagtcacgc ttgggagcta taggattcca 180	
	atatatttga aaccagggtc aggtctacat ctactggtgc cataacagat tctcccgtac 240	
30	canaatcttc ctcatctgaa ttgttatcgg tagtctggga tacagggttc acttggttcc 300	
	tagtggtgaa acttttgctg atgcaggtgt gtgctagttc ctggtccatc tgggccatgt 360	
	atgacttgag attatcaagt gttectttca gggaaagcctc ttccgccagg tctgtgtgtt 420	
	caaagtccaa gtcacatca ctatctaaac attcaaagtc ttcatcatcc agatcatcag 480	
	aatctgactc attaggcctt ggccctaaaa tcttatcaaa ataattaaga aaagaatctg 540	
35	catcaaaagt gattggagcc tcaaaagggt ctcgaggcag ctctgctccc ttgnggggtg 600	
	agactttgga tatgaaagct ttcattgctct ntgaaacttc agttaaaagtc ataagctctg 660	
	tccttctct ccttgggaaa caactcggat tcttttttgn caacagcttt cttgcaacan 720	
	ctgggtccaa ctgatctggg 740	
40	<210> 445	
	<211> 714	
	<212> DNA	
	<213> Homo sapiens	
45	<400> 445	
	cggagggtgac ccggagtctg ctgcagcgt ggggcgccag ttttaggaga ggcgccgact 60	
	tcgactcttg gggccagctg gtggaggcga tagacgagta tcagatatta gcaagacatc 120	
	tacaaaagga ggcccaagct caacacaata attctgaatt cacagaagaa caaaagaaaa 180	
	ccataggcaa aattgcaaca tgcttggaat tgcgaagtgc agctttacag tccacacagt 240	
50	ctcaagaaga atttaaactg gaggacctga agaagctaga accaatccta aagaatattc 300	
	ttacatataa taaagaattc ccatttgatg ttcagcctgt cccattaaga agaattttgg 360	
	cacctggtga agaagagaat ttggaatttg aagaagatga agaagagggt ggtgctggag 420	
	cagggtctcc tgattctttt cctgctagag ttcccggtac tttattacca aggttgccat 480	
	cggaaccagg aatgacatta ctactatca gaattgagaa aattggtttg aaagatgctg 540	
55	ggcagtgcat cgatccctat attacagtta gtgtaaagga tctgaatggc ataaacttaa 600	
	ctcctgtgcc aaganactnc tngggcttca agaaaaagaa aatacatatg ttcattttta 660	
	tgnggggaca ttggagcttc caaaaacnat gttggnaaaa attaacccaa aagg 714	
60	<210> 446	
	<211> 700	
	<212> DNA	
	<213> Homo sapiens	

<400> 446		
5	cggttttgcg acactttaat ggggtttttt ttaagggtatt ttttttcagg tcttgtcagc	60
	aacatcaaac aaaagggtact gagtactcca cagggtacan agtgctgcca aacaccttaa	120
	aaaaattaca tgacacggan aaaatgcnc tnttgctcct tgaanagctt acagtctagg	180
	gatttgacaa ctcacagtct taggaactgg gcaaagtaag gcaaattctt catccctan	240
	agctattgtg gactgaatca ttttanaatt tgggaattaat ccaatcaaga tgagagacaa	300
	gactaaattt ggctganaat tcatttcaggc tcgcatagtt tttattaaca tccgtctant	360
	aaacagaatg gacctaacag acaactgaaa gtaaanacta natctcttga agngcaagg	420
	ctacaacaac ttaattgggg ttacttattt taaaaagcaa acatactgaa tggatgact	480
10	aggggtgatta cactagttta aaaataggcc aggtactgac actgcattcc cctcatgcat	540
	tgctcattta aaatagttaa tattaaaata tgtgggcttt acatntaacc cacagaaagc	600
	ccaccgcaa tgttctgngg tatcaaattc cccctctgtg tactatgaaa gttttattta	660
	tgccccatta agtcaaaagt naattatagt aagctnatga	700
15	<210> 447	
	<211> 641	
	<212> DNA	
	<213> Homo sapiens	
20	<400> 447	
	gcggtagccg cttttcgtcg actcttaccg gttggctggg ccagctgcgc cgcggctcac	60
	agctgacgat gggggacccc agcaagcagg acatcttgac catcttcaag cgcctccgct	120
	cggtgcccac taacaagggtg tgttttgatt gtggtgcca aaatcccagc tgggcaagca	180
	taacctatgg agtggtcctt tgcattgatt gctcagggtc ccaccggcca cttggtgttc	240
25	acttgagttt tattcgatct acagagttgg attccaactg gtcattggtt cagttgcgat	300
	gcatgcaagt cggaggaac gctagtgcac ctctctttt tcatcaacat ggggtgtcca	360
	ccaatgacac caatgccaa gacacagtc gtgctgctca gctctatagg gagaaaatca	420
	aatcgctcgc ctctcaagca acacggaagc atggcactga tctgtggctt gatagttgtg	480
	tggttccacc tttgtcccct ccaccaaagg aggaagattt ttttgccctt cacgtttctt	540
30	ctgaggtgag tgacacaacn gtgggcattt aacaataacc agaaccatct tttttaacat	600
	caangcctgt gggaaaccac tttttgaaa aaaaatgaaa g	641
	<210> 448	
	<211> 761	
35	<212> DNA	
	<213> Homo sapiens	
	<400> 448	
40	ctgctgcaag tgtttattct atttagaagt ctacaaattt gagcttttaa gaaagattca	60
	caaaatattc attcaaaacc acatttttgg cttatcaaat ttcaaata ttttactgtg	120
	ctgaacaata tattctaatt ctgtctaaaa cacagctaaa ttatttttct ttatttggtt	180
	atacacattc ggaattttct gaaaagcaag atttaaaat atttattaac aaaactaccc	240
	aattacaatg actgttctcc catacacgca actattttct gtatgtgtat cttcttacct	300
	cattccactt taactctgta taccgtattg atttgtgatg agatgattta ttatgagaac	360
45	tcttagggag ttctcatctt ccattttctc tcaattcaaa cagcaacacc tttcacaaga	420
	taacattaat tcccttggca gggcagaagc ttaagtttgt taaaagcact cactgaaaaa	480
	cattttttaa tttataggct atataaaata atttacaag agacagatga cttcaaatat	540
	tatttggcag tcaccttact atgtagaac ataaatgaag caatctgtca cacgagacac	600
	cagtcacttt tggctttttg aangaagtgt gtgtggtgag tgttgtttct gcaggcccat	660
50	ncagcatncc gctgattctg gcagccctga gccctgtgtg cacatggggg accttttctt	720
	ctccccaatg gaagcctctg gttcaggacc aggaggagcc g	761
	<210> 449	
	<211> 675	
55	<212> DNA	
	<213> Homo sapiens	
	<400> 449	
60	acggcgagga cgtgcgaggg gtgctgaaga ggcgcgtgga gacgaggcag cacactgngg	60
	aggcgatccg ccagcaggag gtggagcagc tggacttccg agacctctg gggagaagg	120
	tgagtacaaa gacctatcg gaagacgacc tgaaggagat cccagccgag cagatggatt	180
	tccgtgcca cctgcagcgg caagtgaagc caaagactgt gtctgaggaa gagaggaagg	240
	tgcacagccc ccagcaggtc gattttcgtc gtctcctggc caagaagggg acttccaaga	300

	ccccgtgcc	tgagaaggtg	ccaccgccaa	aacctgccac	cccggatfff	cgctcagtgc	360
	tgggtggcaa	gaagaaatta	ccagcagaga	atggcagcag	cagtgccgag	accctgaatg	420
	ccaagggcagt	ggagagttcc	aagcccctga	gcaatgcaca	gccttcaggg	cccttgaaac	480
	ccgtggggcaa	cgcccaagcc	tgctgagacc	ctgaagccaa	tggggcaacg	ccaagcctgn	540
5	cgagaccctg	aaaccccatg	ggcaatgcc	agccttgatg	agaacctgaa	atnccgcttn	600
	gcaaaagaag	aaactcaaag	aaaagacgtt	taagaaatga	tgtggaaact	tnaaagaana	660
	aggncatgcc	cgggg					675
	<210> 450						
10	<211> 791						
	<212> DNA						
	<213> Homo sapiens						
	<400> 450						
15	gagttttaga	gaaatagtc	ttttaatatg	acttanaaac	tgctttttctc	tggctttgtt	60
	tcaactcttct	tcctcttccc	cttccccctc	accttccctc	atcgtttcca	caatgagctc	120
	tgtgtgagc	gtgggttctc	caagactgtt	gacagccttg	caggtgtact	tggcatcgctc	180
	atccccgcaa	acatcactaa	taattaaaga	gcagttcccc	tcctcatcgt	agtcctatctg	240
	gaagtggcgg	gactccctga	ttgactggtc	atctttgaac	canacaacct	cggggtctgg	300
20	gtatccttca	atcttgcagt	caaacttagc	agcacttccc	tccacaactt	ctaaatcgcg	360
	aatgggtctta	gagaaatagg	gttttacatg	aggcttttcc	tcagcaacag	cctcaaggaa	420
	agcttgggac	acatcttcag	attctagttt	ttctgcattg	agcgggctgg	ttggtgaccc	480
	tgttgaggat	ttcctgccac	tgagccctga	gatcattgcc	atagaggaca	gtcttccaat	540
	ggctctcaca	gcattgccc	ttttctgcca	tttncctctt	gccatgtact	tcttcatncc	600
25	gccttgga	gtttcttggc	ctccatgttc	ttnggnatct	ttcattancc	atggatgctg	660
	aangcactgc	gtgcagtcca	agcnggtttt	catatcttct	ttcagcaaaa	tgctgatgaa	720
	atccttggca	tcgtcngaga	atctcatcga	atgccctcgn	ccgtcgaaat	cccaagtggg	780
	ctggaggtaa	c					791
30	<210> 451						
	<211> 726						
	<212> DNA						
	<213> Homo sapiens						
35	<400> 451						
	tctgggaaga	tggcgaaggt	ctcagagctt	tacgatgtca	cttgggaaga	aatgagagat	60
	aaaatgagaa	aatggagaga	agaaaactca	agaaatagtg	agcaaattgt	ggaagtggga	120
	gaagaattaa	ttaatgaata	tgcttctaag	ctgggagatg	atatattggat	catatatgaa	180
	caggtgatga	ttgcagcact	agactatggt	cgggatgact	tggcattgtt	ttgtcttcaa	240
40	gagctgagaa	gacagttccc	tggcagtcac	agagtcaagc	gattaacagg	catgagattt	300
	gaagccatgg	aaagatatga	tgatgtcata	cagctatatg	ataggatttt	acaagaagat	360
	ccaactaaca	ctgctgcaag	aaagcgtaag	attgccattc	gaaaagccca	ggggaaaaat	420
	gtggaggcca	ttcgggagct	gaatgagtat	ctggaacaat	ttgttgga	ccaagaagcc	480
	tggcatgaac	ttgcagaact	ttacatcaat	gaacatgact	atgcaaaagc	agccttttgt	540
45	ttagaggaac	taatgatgac	taatccacac	aaccacttat	actgtcagca	gtatgctgaa	600
	gttaagtata	cccaangngg	acttgaaaac	ctcgactttc	aagaaagtat	tttgacagg	660
	cattgaaact	gacaacagaa	atatgagagc	tttggttggg	ctttntatgt	cggcaagtca	720
	tattgc						726
50	<210> 452						
	<211> 907						
	<212> DNA						
	<213> Homo sapiens						
55	<400> 452						
	gcaagtttaa	taaatcatca	tggtttattt	aacaagggtta	tactacatta	gagttttata	60
	tatatacatg	tatatgtgat	atgaagagac	tgatgtacaa	tcaataagtc	ttaaatctct	120
	cttccatgga	tttcccccat	ctccccactt	agcagtaaaa	ggcattttta	ggtttatata	180
	aacacattct	ttacaactgc	cttcttaaca	gaaaattact	gtagtatata	aatagcactg	240
60	agcatttagt	aaataagtta	caggccaata	agttcaattg	tgagttgtg	aaatctaattg	300
	tcaaagagtt	tttgaaacct	taagactggg	tgatctgcaa	tgtttccaac	atgtcttcga	360
	cagccttaag	agaatatattg	gtttccttct	tactctgacc	tgcaaaactga	taagctctgt	420
	ttatttgact	agctgccaac	tagcatattt	catgttgcc	ttttcgtttt	tgcacttgc	480

	tttggattag	aagcaatatg	acttgccgca	tataaaagtcc	aaacaaagct	ctcatatttc	540
	tgntgntcan	gtttcaatgc	ctgtgcaaaa	actttcntga	aagttcgang	ntttcaaanc	600
	cccttgggna	tacttaactt	cagcatactg	ggtgnaagna	taagnnggtg	ggnggattan	660
	tcatcattag	gtcccccttaa	acnaaangng	ggttttttna	tagncatgnt	cnattgaagg	720
5	gaaaggctct	gcaagtttna	tggccanget	tntttggnet	tccacaaaat	ggttccaaaa	780
	cctcattcaa	ctcccgnaag	gggcncaa	ttttccctg	ggnggttttg	naaggggan	840
	tttacccttt	ttggaaaaaa	ggnaantggg	aactnttggg	aaaaaccntt	ttataagcgn	900
	ggtaagc						907
10	<210> 453						
	<211> 669						
	<212> DNA						
	<213> Homo sapiens						
15	<400> 453						
	accatgtgct	gagtctctcc	ttccccatcc	ggcgcgacga	cggctcctgg	gaggtcatcg	60
	aaggctaccg	ggcccagcac	agccagcacc	gcacgccctg	caagggaggt	atccgttaca	120
	gcactgatgt	gagtgtagat	gaagtaaaag	ctttggcttc	tctgatgaca	tacaagtgtg	180
	cagtgggtga	tgtgccgttt	gggggtgcta	aagctgggtg	taagatcaat	cccaagaact	240
20	atactgataa	tgaattggaa	aagatcacaa	ggaggttcac	catggagcta	gcaaaaaagg	300
	gctttattgg	tcctggcatt	gatgtgcctg	ctccagacat	gagcacaggt	gagcgggaga	360
	tgtcctggat	cgctgatacc	tatgccagca	ccatagggca	ctatgatatt	aatgcacacg	420
	cctgtgttac	tggtaaacc	atcagccaag	ggggaatcca	tgacgcac	tctgtactg	480
	gcoogtgggtg	tcttccatgg	gattgaaaat	ttcatcaatg	aagcttctta	catgagcatt	540
25	ttangaatga	caccaanggt	ttggagataa	aacatttgtt	gntcaaggat	tttggtaatg	600
	tgggcctgca	ctctatgaaa	anatttacat	cgtttgngc	taaatgtatt	gcntgtggng	660
	aagtctgat						669
	<210> 454						
30	<211> 593						
	<212> DNA						
	<213> Homo sapiens						
	<400> 454						
35	ggaaaacgta	gacttttaat	aactgctttt	atcaccaggt	taagccatgc	agttacaaag	60
	tagttagaaa	ttcttgaagg	gtgtagagat	taaaaaaa	aaaaagctga	ctcttacaca	120
	tatattatct	agcacttcat	ggggacacta	ctgttcaaaa	ggccctggcc	aaataactcc	180
	caaatgaaac	actcaaccca	aggatgtttt	cagcccactg	ttagtgaagc	tgggtgcana	240
	atgcaaagcc	tctaaaagga	gaggatacaa	agtcagggtg	gtaggggcca	ttggcaatgc	300
40	tcagagccag	ccagactcca	aacagggagc	ccaagtgggt	ttttctggg	acactctact	360
	tgaattattg	tttaattagt	caaccataga	tcttcaaaa	anaacaatta	gttaacatga	420
	taaaaagtga	ctggattctt	tggactgnat	tataattatt	gtaagccaat	tctgacgggt	480
	taatgaaaat	agccnccca	ttttgcangg	ttgaanatac	ttaattnttc	ncanggcttt	540
	tnatggctgg	tngccatcnt	ggatggatag	ctttaatggc	cttgggttat	gaa	593
45	<210> 455						
	<211> 712						
	<212> DNA						
	<213> Homo sapiens						
50	<400> 455						
	ccttactcgc	ggcctgcag	gtngacacta	ntaggatccn	ngaattnggc	acgaccaggn	60
	attgatgcgc	cagggatccc	aaatttttgg	gtaacaacat	ttgcanccat	ccacanactg	120
	tctgcncctg	ttggggagga	agatgaatga	ggcncgtgtt	atttnaccat	gnnttgaanc	180
55	gacnnaattt	gctgatatta	natccagtta	cctaatagat	ttttatttct	gntnaannnc	240
	cttactttna	aaataaagac	ctctccnnnc	aattntatnt	nattgngagn	ggtgatcnnt	300
	cttcgacctc	cnmcganctc	nantggantt	ctgcacanga	tttgactnac	cgtntcantc	360
	nccctgcaga	atanagccat	caaggangag	gcattcatga	ggaaccagag	agcttcttta	420
	cctggtttac	tgaccattct	gatgcagggtg	ctgatgantt	angagagggtc	ntcaaagatg	480
60	atatttggcc	aaaccattta	cagtnctact	tggttcccga	tatggatgat	gaaaancggn	540
	aaggagaaaag	aagatgatga	tgatgatgaa	gaggangann	gattnaaaca	tattgactan	600
	taatgggatg	aggatgaagg	tgangaanat	gaantatgat	gatgaaangg	gaagaangag	660
	agnaagattg	ncgtaanatt	tncntatag	nacactgttn	gattcnaacc	tt	712

	<210> 456	
	<211> 760	
	<212> DNA	
5	<213> Homo sapiens	
	<400> 456	
	aancaagana aagtanacag atccntgtng gtaaangcta actgnccata ttcacataaa 60	
	nacncagngt cctntntgan cccanttttc ananaangga ggaaaaaanc tanantntntn 120	
10	tgcntacta cncaggggcc tancnccctc cagnttccan caaagcgaag ggagcagggtt 180	
	ttntttttt cccacanagc tcgggggggt tgattccntn cagtttttgt tcaaacngga 240	
	ngggataaaa atgaacttcn ancanaaagg ggtananact nttttcccat tgtattctgc 300	
	tcaaggtnnt tcccccaaaa taaattgana accatggagt aaaaaaana nacctcaana 360	
	acagggcgac tgnncnaana gggaaaaaaa aaaaaaaaaa gacngcaact tgctcccagg 420	
15	gactggaaaa aatttataaaa aaggaaggtn ggaatccanc aggggttctat ttaggnattt 480	
	tctccttaat cctcctctcc ttncctccnt taataataat attnatcttc ttcacctna 540	
	tccnatncc cttntngaa aatattttct aaccttctc ctctnnataa atnanaatna 600	
	actntnnnc cttctncttc ttcacatcc atatcgggga cccaaatann cttnaattgg 660	
	gtttgggccc aaaattattt tttgtagacc tttctactt tattaataaac ctgntttana 720	
20	aaggggcngt naaccagggt aaanaaacct tttnggttcc 760	
	<210> 457	
	<211> 811	
	<212> DNA	
25	<213> Homo sapiens	
	<400> 457	
	tggcgcgagg ctcctgcgag aagcaagcgg aacttcctga gcgtgcttag gtgtcacagc 60	
	tgggtgaccc tccgaaggaa ggttttgccg ctggcgcgctc tgggtgatcg cggccttggt 120	
30	gccgaggatc cctggggcctt gccgctgcct ctgggggttcg cgcgccctg gcgtcggggc 180	
	tgcttcagcg ctggctgaag gccggccga agcaccctta attgtggccg cgcgcttccc 240	
	tgctgctcct gctgttctcc gcgtcgggt ggtggactct ggagggtggag ccttgcccgg 300	
	cgagacgttg aggaggaatc attatagatt ctaaaaatat attttccctt ctctgtggac 360	
	ttggtataaa acgtagcttt tttctgctt ggatttatit tctaaaaatc aacaccgtaa 420	
35	accatataca gatacaacaa aattggggta gttaaaacca tgagttgtgg aaatgagttt 480	
	gtggaaacat taaaaaaaat tggttatccc aaagctgata atcttaattg agaagacttt 540	
	gactggttgt ttgagggcgt tgaanatgaa tcgtttctga agtggttttg tgggaatgtg 600	
	aatgaacaga acgtgttgtc ttgaaaaaan aattgggaagc ttttaanatt ctttanaaaa 660	
	tcangcaagc ctatttctaa aaaaggggcc ggcatattgga ttgaaagctc tttaaaaacg 720	
40	tgtaaaaact ttcttgattt ggaaagaaca ccctaanact gggattgaat aaaanaacct 780	
	tggagaagaaa tttagangga ttgaagggtt c 811	
	<210> 458	
	<211> 801	
	<212> DNA	
45	<213> Homo sapiens	
	<400> 458	
	aaaaatttag tagtgtttat tatacacagt cttctaataa ataaaagagg acacgtaata 60	
	aagattcagt tttcagtaat tttcaatctt caagactaac agccttaatc tttgattgag 120	
50	tttctaattt ctcacaata tctttcagat aatcttcatc ttttaaaaaa tatacataga 180	
	attctctttt catttgatgt aatttattat ttgccaaagt ttttctttt gtcttcacat 240	
	cagcaagaat atcagtgagg agatgattta gcttattcag ttgagattca actttatgaa 300	
	actgctctgt taactcctga tcaactaagca aaagctgatt tcctccttga tacaaagtat 360	
55	cacaaagcat gtccacatcc ttattccggt tggacagaaa gaaagaatgt tcttgagcag 420	
	atactgccaa ctgatcttgt actaaagaaa tattctgttt caatttctca gccacttcc 480	
	caaggtttcc atgagttaga aacaattctt ttttcttatt ctctccctcc aaaacttgg 540	
	aaagcctatg agtagaataa tcttagtat caatggatt ccttgattt atctgttgag 600	
	aaactgatgg atctgttaac atttctaatt gcttgnaaag catcatgta ctttgactaa 660	
60	gttcttgaac caaattttca aggttgacga tatatgtccc cgagctttct taattcaatt 720	
	tctatggata accggggaag ttcaaatgat gncctttggt ttattaatgg attttaaact 780	
	aacccttggc ttgctggata a 801	

	<210> 459	
	<211> 695	
	<212> DNA	
	<213> Homo sapiens	
5	<400> 459	
	ggcggctgta caactcggcc gttgtcacca tgccggtcgt ccggaagatt ttccgtcgcc 60	
	gccggggcga ctcggagtca gaggaagatg agcaggactc agaggagggt cgattaaaac 120	
	tggaagagac cagagaagta cagaacttga ggaagaggcc caacggggtg agtgctgtgg 180	
10	ccttgctggg gggagagaag gtacaagagg agaccactct agtggatgat cccttccaga 240	
	tgaagacagg tggatggtg gatatgaaga aactgaagga aaggggcaaa gataagatca 300	
	gtgaggagga ggacctgcac ctggggacat cgttttctgc agaaaccaac cgaagggtg 360	
	aggatgcaga catgatgaag tacattgaga cagagctaaa gaagaggaaa gggatcgtgg 420	
	aacatgagga acagaaagt aagccaaaaga atgcagagga ctgtctttat gaacttccag 480	
15	aaaacatccg tgtttcctca gcaaagaaga ccgaggagat gctttccaac cagatgctga 540	
	gtggcattcc tgaggtggac ctgggcacgc atgctaaaat aaaaaatatac atttncacgg 600	
	aggatgccaa ggcccgctcg ctggcagagc nccgaaccag gaagaaagac cgcgagacct 660	
	ctttgtgcct accaaccatgg ctgtgaatta ttgtc 695	
20	<210> 460	
	<211> 780	
	<212> DNA	
	<213> Homo sapiens	
25	<400> 460	
	aaaaatttag tagtgtttat tatacacagt cttctaataa ataaaagagg acacgtaata 60	
	aagattcagt ttccagtaat ttccaatctt caagactaac agccttaatc tttgattgag 120	
	tttctaatt ctccacaata tctttcagat aatcttcac ttttaaaaaa tatacataga 180	
	attctcttcc catttgatgt aatttattat ttgccaagt ttttcttttt gtcttcacat 240	
30	cagcaagaat atcagtgagg agatgattta gcttattcag ttgagattca actttatgaa 300	
	actgctctgt taactcctga tcaactaagca aaagctgatt tccctcctga tacaagtat 360	
	cacaaagcat gtccacatcc ttattccgtt tggacagaaa gaaagaatgt tcttgagcag 420	
	atactgccaa ctgatcttgt actaaagaaa tattctgttt caatttctca gccacttcc 480	
	caaggtttcc atgagttaga aacaattctt ttttcttatt ctctccctcc aaaacttggt 540	
35	aaagcctatg agtagaataa tccttagtat caatggatt ccttggattt atctgntgag 600	
	aaactgatgg atctgttaac atttctaatt gcttgnagag catcatgtta ctttgactaa 660	
	ggttcttggg accaaatttt cnaggtggcc gatatatgtc ccgaagcctt tcttaaatte 720	
	aattttcatt atggaataac ctgggagaaa gtccaaatgg atgccccttt ggggtttatt 780	
40	<210> 461	
	<211> 753	
	<212> DNA	
	<213> Homo sapiens	
45	<400> 461	
	gtatcgtgga aaggagagt ggccactatg tggagatgca cgcccgtat atagggacca 60	
	cagtgtttgt gcggcagggtg ggtcgctacc tgacccttg cctccgtatg cctgaagacc 120	
	tggccatgtc ctacgaggag agccaggacc tgcagctgtg cgtgaacggc tgccccctga 180	
	gtgaacgcac cgatgacggg cagggccagg tgtctgccat cctgggacac agcctgcctc 240	
50	gcacctcctt ggtgcaggcc tggcctggct acacactgga gactgccaac actcaatgcc 300	
	atgagaagat gccagtgaag gacatctatt tccagtcctg tgtcttcgac ctgctcacca 360	
	ctggtgatgc caactttact gccgcagccc acagtgcctt ggaggatgtg gaggcctgc 420	
	acccaaggaa ggaacgctgg cacattttcc ccagcagtgg caatgggact ccccgctggag 480	
	gcagtgattt gtctgtcagt ctaggactca cctgcttgat ccttatcgtg tttttgtagg 540	
55	ggttgntctt tgttttgnt ttttattttt tgctataaca aaattttaaa atatatattg 600	
	ncataatata ttgagtaaaa gagtatatat gtatatacca tgtatatgac aagatgtttg 660	
	tcctgggaca cccaccaaga ttgncatact ggggttggtt ggtttcacat atgttgatg 720	
	tagggctctt gaatggatca attttggtg gag 753	
60	<210> 462	
	<211> 766	
	<212> DNA	
	<213> Homo sapiens	

<400> 462
 gcaaggnatg taactttatt tttctagcat aataatttaa agtatttaca cactgcacac 60
 tcactgtttt acacanatac gtattcatat atctatgaac cacatctaaa gggtttctttg 120
 5 caaanactcg acacactgng ggggggggag cttccaagcn taacaaagag gacaaaaaaa 180
 agttttgagt ctttttaana cagccatgtg gagcatntgt gaaaaccagn gtttcccccg 240
 ttttaagctc ccccaggana cctctgaaca gctntagcct atccacatgt tggatgacc 300
 tgaaattctt cttagctaagg tttcaanaac caacatgtgc aagcagcatt ttttctagaa 360
 atntcaaaaa aggagaaaat aaacctggcc cttacgtana gaaatacatc tatttctgaa 420
 10 agtaatctgt ggggattgtt ttacagggac accgattaca agggcagaat agcaaaatc 480
 actnttacta gtgatgcagg gngcttttaa atgtccttcc actaaatgat atggcaaat 540
 aaccaaatct tnttttcca actatcagta angnggntg gtattttccc tgaaaaagag 600
 caaanggttt tttattaatg atacacactc taaacccaaa cctatanaaa ttcttctatt 660
 gnttttactt cactttcatc tatttgccaa aanaggggg tatccccga ttttttcnc 720
 15 cttggccccc ccantnttaa acaaattttt accatgcttt tgaatt 766

<210> 463
 <211> 827
 <212> DNA
 20 <213> Homo sapiens

<400> 463
 gctgtcagaa aaatttttta aagcagcctc taattgtggc attgtagaaa gtatcctgaa 60
 ctgggtgaaa ttttaaggctc agactcagct gaataagaag tgttcatcag taaaatacag 120
 25 taaaatcaaa ggtattccca aactggatga tgctaattgat gctgggtgta aacattccct 180
 ggagtgtaca ctgatattaa cagagggaga ctctgccaaa tcactggctg tgtctggatt 240
 aggtgtgatt ggacgagaca gatacggagt ttttccactc agggggcaaaa ttcttaatgt 300
 acgggaagct tctcataaac agatcatgga aaatgctgaa ataaataata ttattaaaat 360
 agttgggtcta caatataaga aaagttacga tgatgcagaa tctctgaaaa ccttacgcta 420
 30 tggaaagatt atgattatga ccatcagga tcaagatggt tctcacataa aaggcctgct 480
 tattaatttc atccatcaca attggccatc acttttgaag catgggtttc ttgaagagtt 540
 cattaactct attgnaaagg caagcaaaaa taagcaggaa ctttccttct acagtattcc 600
 tgaatttgcg aatggaaaaa acatatngaa aaccagaaaag cctggaaaat aaagtactat 660
 taangattgg gtctagtnca gcttaaagaa gcaaaggata ttttggtgaa ttggaaaagn 720
 35 gtcgcatttg gttanatatc tggncctgaa aangaagctg cnttaacctt ggcttttagt 780
 aananaaaat gntgaccgaa aaaaaatggt taacaaattt tntggaa 827

<210> 464
 <211> 708
 40 <212> DNA
 <213> Homo sapiens

<400> 464
 cccattttta angtttaaat ttcatttcaa aaagcaggctc tgtagttngt anccntgaca 60
 45 attaaaaatnt gngctaatgc ncggcagntn ntaacaattn tncaanccaa tcaaacagtn 120
 cgngacnttt cantgagtaa aaaanancnt aaaactgttt gngtaaaaaa aaaatgttaa 180
 anggcctccc ncaatantaa aaaaccgncn ntnctntcnt cncnttaaaa taanccanat 240
 gtccaaaagt ntgagncaga naanacaaan ggcnccccaa gatttttgtt gaaaaatgtt 300
 tgngctnttt gggcccttaa ttaaaccattg caaaatcaac atcntttttt tttcntnaa 360
 50 actntgcaaa atnttttact tntttcntac ccnaccgggt cgtggcaaaa aaggnggctc 420
 attagggaaag tntgagggga aaatgtccac atctgaatcc tgatcaaaan atgtcttctt 480
 cggtttcttg cttgnggntt tggangtttn cctgccaggg ttataatcgc cttcattttc 540
 aaagccanat gctttccttt tntttgcccc tngccttta ccttttgggg gnggaggctt 600
 nttttggaat gccaaattct gaatcccag canaagntta cagccctttn ttcttntttt 660
 55 tgttttnggg gttntnttg gcttaaggac tggntttgaa aacgggtt 708

<210> 465
 <211> 774
 <212> DNA
 60 <213> Homo sapiens

<400> 465
 aggtgggtcg ctacctgacc cttgccatcc gtatgcctga agacctggcc atgtcctacg 60

	aggagagcca	ggacctgcag	ctgtgcgtga	acggctgccc	cctgagtga	cgcacgatg	120
	acgggcaggg	ccaggtgtct	gccatcctgg	gacacagcct	gcctcgcacc	tccttggtgc	180
	aggcctggcc	tggctacaca	ctggagactg	ccaacactca	atgccatgag	aagatgccag	240
	tgaaggacat	ctatttccag	tcctgtgtct	tcgacctgct	caccactggg	gatgccaact	300
5	ttactgccgc	agccacagt	gccttgagg	atgtggaggc	cctgcaccca	aggaaggaac	360
	gctggcacat	tttccccagc	agtggcaatg	ggactccccg	tggaggcagt	gatttgtctg	420
	tcaagtctag	gactcacctg	cttgatcctt	atcgtgtttt	tgtaggggtt	gncttttgnt	480
	ttggtttttt	attttttgnc	tataacaaaa	ttttaaaata	tattttgnca	taatataattg	540
	agtaaaaaaga	gtatatatgt	atataccatg	tatatgacaa	ggatgtttgt	cctgggacac	600
10	ccaccagatt	gnacatactg	ngtttggctg	gtttcacata	ttgttggatg	naaagntcct	660
	tgattggatc	aattttgggt	tgcagttctg	ngaaangttt	ataatgtcct	tgccaaggac	720
	ctggtanaaa	cacttttatt	tttatatat	aaanatttat	ggggggcctg	ggtg	774
	<210> 466						
15	<211> 778						
	<212> DNA						
	<213> Homo sapiens						
	<400> 466						
20	ccacagcaag	gtatgtaact	ttatttttct	agcataataa	tttaaagtat	ttacacactg	60
	cacactcact	gttttacaca	gatacgtatt	catatatcta	tgaaccacat	ctaaagggtt	120
	ctttgcaaa	actcgacaca	ctgtgggggg	gggggagctt	ccaagcntaa	caaagaggac	180
	aaaaaaaagt	tttgagtctt	ttaaanacag	ccatgtggag	catctgtgaa	aaccagtgtt	240
	tcccccggtt	taagctcccc	cagganacct	ctgaacagct	atagcctatc	cacatgttgg	300
25	tatgacctga	aattcttcta	gctaagggtt	caanaaccaa	catgtgcaag	cagcattttt	360
	tctanaaatc	tcaaaaaagg	agaaaaataa	cctggccctt	acgtagagaa	atacatctat	420
	ttctgaaagt	aatctgtggg	gattgtttta	caggggacacc	gattacaagg	gcagaatagc	480
	aaaatacact	attactagt	atgcaggng	cttttaaatg	tcacttccag	ctaaatgata	540
	tggcaaaata	accatctct	cttttcccac	tatcaagtaa	ngnggggtgg	tattttncct	600
30	gaaaagagca	aaggttnttt	attaatgata	cacactctna	accagatcc	tttanaaatt	660
	cttctattgn	ttttacttca	ctttcatact	tttgacaaa	aaaagggggg	tatncccccg	720
	attttttcct	cncttgggcn	tcccaaattn	taaaacaaat	ttttacnatg	cttctgaa	778
	<210> 467						
35	<211> 726						
	<212> DNA						
	<213> Homo sapiens						
	<400> 467						
40	gagaaatcac	tgaattaaaa	gtaaaagaat	ttgaaaatat	caaattacag	cttcaagaaa	60
	accatgaaga	tgaagtgaag	aaagtaaaag	cggaaagtaga	ggattttaaag	tatnttctgg	120
	accagtcaca	aaaggagtca	cagtgtttta	aatctgaact	tcaggctcaa	aaagaagcaa	180
	attcaagagc	tccaacaact	acaatgagaa	atctagtaga	acggctaaag	agccaattag	240
	ccttgaagga	gaaacaacag	aaagcactta	gtcgggcact	tttagaactc	cgggcagaaa	300
45	tgacagcagc	tgctgaagaa	cgtattattt	ctgcaacttc	tcaaaaagag	gccccatctca	360
	atgttcaaca	aatcgttgat	cgacatacta	gagagctaaa	gacacaagtt	gaagatttaa	420
	atgaaaatct	tttaaaattg	aaagaagcac	ttaaaacaag	taaaaacaga	gaaaactcac	480
	taactgataa	tttgaatgac	ttaaataatg	aactgcaaaa	gaaacaaaaa	gcctataata	540
	aaatacttag	agagaaagag	gaaattgatc	aagagaatga	tgaactgaaa	aggcaaatga	600
50	aaagactaac	cngtggatta	cagggcaaac	ccttgacaga	taataaacca	aggtctaatt	660
	ggagaaactc	caanggaagg	ttaaaaactt	gagaacccat	ttttanggga	aggngggagg	720
	aagtaa						726
	<210> 468						
55	<211> 704						
	<212> DNA						
	<213> Homo sapiens						
	<400> 468						
60	catataat	tatttattaa	gaattccaat	ctaagtataa	aggtncaagg	tagtgagaag	60
	gaaatactac	agttcggaga	actgcttatt	tccaagtata	tttaacttat	aaagttaata	120
	aatagttaaa	tgaacaaaag	tttatagggt	accttttagta	aatggggaaa	ttacaggac	180
	tttcttcttc	atcttcaaac	tcttcanaag	cagcaacagg	gctagttaat	tcaactccca	240

	attgttctga aagttttttt accttctctt ctaanagaat attcttcttc acttcttctt	300
	tgtaattata cttaanatct tcaatttctt caaaaaatga aggatcaaaa ttttccagtt	360
	cttttttcag cttcttttatt tcctccttca aatgctgctt ttctanatct gacattttga	420
5	gctgngtctc tagatctttt atttttctct ttagttgata agcatcaggt atggngcttt	480
	cagctccact ttggtccttg gtagcttcta tctgatggat taattctgct ttctctttat	540
	cagctggatg attagctnat ctaaaaacct ggaagctccc tttaaaggcc tgctctgtct	600
	caacccntc angaacatgg tttanaatc ttaatctggt gntcaagggc ttcattggat	660
	ttgggaaacc tttttgggnc ccnctctggg ggccctnttt acaa	704
10	<210> 469	
	<211> 763	
	<212> DNA	
	<213> Homo sapiens	
15	<400> 469	
	gccgggagtt ggagcctgag gagttcgaga ccatgctgct gttctgcccc ggctgcgagg	60
	acgggctgat cgtggaggag ggacaacgct gccaccgctt cgcttgcaac acgtgcccc	120
	acgtgcacaa catcacccgc aaggtaacaa atcggaagta cccaaaactg aaagaagtgg	180
	atgatgtgct tgggtggagca gctgcctggg agaattgtga ctctactgca gactcgtgct	240
20	ccaaatgcga acatcctcgt gcttacttca tgcagcttca gaccgctct gcagatgagc	300
	cgatgaccac cttctacaag tgctgcaatg ctcatgtggt acaccgctgg agggattagg	360
	gccaggatgg ccagctgcc ctagtgtgtg cttgccttgt ccctcggggt agatgcttan	420
	ctggcagtat gagttgtgtg tcctgagggg ctttgctagt gtggtggaaa gataaacctt	480
	ttgaggtgaa gagccagggg gtcaggaat atggcctatc tgccaggcag ggtggatgaa	540
25	gtcatgaatg tctgggagtt tttctgtgtg gggaggagac agagacccat aactaaatat	600
	gctctgtgtg aaaagtcta ttctttcatc ttccaattta ttggcaattg acattccctt	660
	taactnccaa tcaaacactc ttaaaatatt ttgtacctgt ttgtaaaact taantacatg	720
	gtncctaaa atattttaac ctgttacttt ggaaaacttg ggg	763
30	<210> 470	
	<211> 706	
	<212> DNA	
	<213> Homo sapiens	
35	<400> 470	
	gcaatattcc aactttcatt taaatgaaat attcagaatt ttgattaaaa taaataataa	60
	attacacaag tttaacaagta acagttaaat atttagggag atgtactaag ttttacaac	120
	agtacaaata tttaanagtg ttgattggga gtaagggaat gtcaactgcc aataaagtgg	180
	aagatgaaag aataggactt tacacagagc atatttagtt atgggtctct gtctcctccc	240
40	cacacagaaa aactcccaga cattcatgac ttcatccacc ctgcctggca gataggccat	300
	atttccctgac cccctggctc ttacctcaa aaggtttatc tttccaccac actagcaaa	360
	accctcagga cacacaactc atactgccag ctaagcatct accccgaggg acaaggcaag	420
	cacacactag ggcagctggg ccacccctgc cctaactccct ccagcggtgt ccacactgag	480
	cattgcagca cttgtagaag gnggtcatcg gctcatctgc agagcgggtc tgaagctgca	540
45	tgaagtaagc acgaggatgt tcgcatttgg gacacgactc tgcagtagag tcaacattct	600
	cccaagcagc tgctccacca agcacatnat ccacttcttt cagttttggg tcttncgatt	660
	tgttacctg cnggtgatgt tgtgcacgta gggggcacgt gttgca	706
	<210> 471	
50	<211> 715	
	<212> DNA	
	<213> Homo sapiens	
	<400> 471	
55	gctgcaagat ataaaagaaa aaatcagtaa gggagaatat ggaaacgctg gtatcatggc	60
	tgaagtggaa gagctcagga aacgtgtgct agatatggaa gggaaagatg aagagctcat	120
	aaaaatggag gagcagtga gagatctcaa taagaggctt gaaagggaga cgttacagag	180
	taaagacttt aaactagagg ttgaaaaact cagtaaaaaga attatggctc tggaaaagtt	240
	agaagacgct ttcaacaaaa gcaaacaaaga atgctactct ctgaaatgca atttagaaaa	300
60	agaaaggatg accacaaagc agttgtctca agaactggag agttttaaag taaggatcaa	360
	agagctagaa gccattgaaa gtcggctaga aaagacagaa ttactcttaa aagaggattt	420
	aactaaactg aaacatttaa ctgtgatgtt tgtagatgaa cggaaaacaa tgagtgaaaa	480
	attaaagaaa actgaagata aattacaagc tgcttctctt cagcttcaag tggagcaaaa	540

	taaaāgtaaca	acagttactg	agaaagttaa	ttgaggaaac	taaaanggcg	ctcaagtncc	600
	aaaccctgtg	tgaagaaaag	atgttcgccc	ttacccangn	gagagatgat	tttaaaaaa	660
	aaattgaagc	cggagaaaag	aaanggaatg	tctcctgtca	agagttatat	gttgg	715
5	<210> 472						
	<211> 716						
	<212> DNA						
	<213> Homo sapiens						
10	<400> 472						
	aaaaataaca	aattattttac	tgttttataa	tgtaaagta	tttcaccaag	acaagttgca	60
	gtcaaattaa	agtgagttat	ggaaaatgaa	atacataaag	atgtatttat	acaagtgcag	120
	actaaatatt	ttccatacaa	gtatgtaaat	gaaaagatat	acagtaagtg	cacactcgat	180
	atgactatgc	aggcaacagt	tagtttcaga	tactcttgta	tagttcatgc	acaaaccttc	240
15	ccaaagtacg	agttcagtca	gtcttggggg	atatggaggg	atgattaaaa	aaggattgag	300
	ttccttgcaa	aaatatcagt	atggactgga	tgagggtgag	cgtggtcagt	tatatatatt	360
	acttactgta	atttgtgatt	gtcgaggaa	agggtgtggc	gttgggtgta	tagtaatact	420
	gctgggtgact	ttattgggtg	ttttgtttag	tgccccgtta	attaagcctt	gagttcgggt	480
	atcctgcagt	gggtgctgaag	ggctggcagg	tctcacaggg	ctggctacag	cttgcatgta	540
20	angacttnct	aagtgaatgt	ggatttatta	tcctcagagt	tatcccactt	gagctattgn	600
	tgggttgaac	nctgaaactg	ccatgatgac	ttgcccgtct	nggggagact	cttgaanttc	660
	gcatgcctgg	cncctggatt	tctgggtggg	ctnggggagc	ggtccctgct	caagga	716
25	<210> 473						
	<211> 671						
	<212> DNA						
	<213> Homo sapiens						
	<400> 473						
30	gtaagagttg	actctacagc	aaaggttgca	gaaatagaac	atgcggaaaa	ggaaaaaatg	60
	aaggagaaag	ttgaacgtat	tcttaagcat	ggaataaatt	gctttattaa	caggcaatta	120
	atttataatt	atcctgaaca	gctctttggg	gctgctgggtg	tcattggctat	tgagcatgca	180
	gattttgcag	gtgtggaacg	cctagctctt	gtcacagggtg	gtgaaattgc	ctctaccttt	240
	gatcacccag	aactggtgaa	gcttggaagt	tgcaaaacta	tcgagggaagt	catgattgga	300
35	gaagacaaac	tcattcactt	ttctgggggt	gcccttggtg	aggcttggtac	cattgttttg	360
	cgtggtgcca	ctcaacaaat	tttagatgaa	gcagaaagat	cattgcatga	tgctctttgt	420
	gttcttgccg	aaactgtaaa	ggactctaga	acagtttatg	gaggaggctg	ttctgagatg	480
	ttgatggctc	atgctgtgac	acagcttgcc	aatagaacac	caggcaaaga	agctgttgca	540
	atggagtctt	atgctaaagc	actgagaatg	ttgccaacca	tcatagctga	caatgcagct	600
40	atgacagtgc	aaacctgggtg	gcacagctca	aggctgctcc	agtgaaggca	tcccctgctg	660
	gattggattg	a					671
45	<210> 474						
	<211> 737						
	<212> DNA						
	<213> Homo sapiens						
	<400> 474						
50	ctcacggaca	agaacctcag	ataggttaaa	taggattgctg	aatcagggtgg	ccattcagcg	60
	gaagaagcag	tttgtggagc	gagcccacag	ctactggctg	ctcaagcggc	tgtccaggaa	120
	cgggggcccc	ctgctgcggc	ggctgcagtc	cagcctgcag	tctcagcgaa	gctcacagca	180
	gagagaaaat	gatgaggaga	tgaaggctgc	caaagagaag	ctgaagtact	ggcagcgct	240
	gcggcacgac	ctggagcgcg	ctgcctgct	gatcgagctg	ctgcgcaagc	gggagaagct	300
	caagcgtgag	caggtgaagg	tggagcaggt	cgccatggag	ctgcggctga	ccccgctgac	360
55	ggtgctgctg	cgctcagtcg	tggaccagct	gcaagacaag	gaccccgcca	ggatatttgc	420
	gcagcccgtg	agtctgaagg	aggtaccaga	ttattttggat	cacattaaac	atcccatgga	480
	ctttgccaca	atgaggaaac	ggttagaagc	tcaaggggtat	aaaaacctcc	atgagtttga	540
	ggagattttt	gatctcatta	tagataactg	catgaagtac	aatgccaggg	acaccgtgtt	600
	ctataaancc	cgcgggtgaag	cttgcccat	caaggaggtg	ttgtttctga	ngcaagcccc	660
60	gccncganct	gggacaagca	tccgcttggg	aaaaaggnc	tcgggggattg	ccccttgctt	720
	gaagccgggc	ttgcttg					737

<210> 475

<211> 780
 <212> DNA
 <213> Homo sapiens

5	<400> 475		
	cctaatcttg actttatatt taatataaaa aatgcaaatt tggaaaccca cctacttttc	60	
	cccaacataa tgctttacct cttaaaaaata aaaataaagt actaattcta tatacatcac	120	
	aggtaccata caaaaatgta tccaaagttt ctattgctac caaagtgttc taaattaaaa	180	
	caagttacag aaagcccctc attgtaaaca aaagattaca agttataaaa tcaaagtaca	240	
10	cacaggccan agtcatttat acaatgcaat gcattctgct cccaagccaa gttgaatttt	300	
	tatgtgcctg tataaaaatg catatcaata tacctttgca aatgtatttt tcattataaa	360	
	gcaaatgaat acactttcta caataaataa tccgntggga ggcacacctg cggggtttga	420	
	ggtgggcggg acgacgggag cggggacaca cccaccggcg gtcacgggca gcgggagngtt	480	
	tttggtgatc tgcaagtgat gtacacagca taactttatt ctcccctctt tccacaaagt	540	
15	accattcaaa ataatgncat tttctttctt aaaatacaca tttgtcattg taaatttaca	600	
	tcccgtctta ttaaataagt ggtctctgtg taaagagcat gatttacaaa attattaaac	660	
	attcaaaagt ctttaanaaa aagctacatn tcaanaaaag ggnaccccag caacaccggn	720	
	ctgggggacg tgcganaaaa cncactgggc ttggcccgga cgtgcccccc cccatttaca	780	
20	<210> 476		
	<211> 738		
	<212> DNA		
	<213> Homo sapiens		
25	<400> 476		
	agaagccaga gctccagcgg cgccgcgggg cggcagtcac gaccagagcc ggagccgtca	60	
	ctcacctctg gattagcctg aagcggagac taccggctgc ggagcggcgg ggcgagacac	120	
	ttgctgcctt ttgacccca tcatgtcgcg gggctccatc gagattcccc tccgggacac	180	
	tgacgaggtc attgaacttg acttcgatca gttaccggag ggagatgaag ttatcagtat	240	
30	tctgaaacag gaacacacac aactgcacat atggattgct ttggcgtctg aatactacaa	300	
	gcaaggaaaa acagaagagt ttgtaaaatt gttggaagca gcacgtatag atggcaattt	360	
	ggactataga gaccatgaaa aagaccagat gacttgcttg gatacattgg cagcgtatta	420	
	tgtacaacag gctcggaaaag aaaagaataa ggacaataaa aaggatctta ttacacaggc	480	
	caccttggtt tatacaatgg ccgataaaat tattatgtat gatcagaacc atttgttggg	540	
35	aagagcctgc ttctgcctac ttgaggggtga caaaatggat caagctgatg cacagtcca	600	
	ttttgtactc aatcagtcctn caaataatat ttncagccct tcttggttaa acttgcattt	660	
	ncttcaacaa gaaaggattt cagganggag ctcttggtt actattaana aagcattgcg	720	
	tactaaccce aggattgt	738	
40	<210> 477		
	<211> 766		
	<212> DNA		
	<213> Homo sapiens		
45	<400> 477		
	aaaagntggg anaagaatnc tattattang tggcttaagt cggtttttagc tgtctactan	60	
	cngaaaagca ttttccncac cntattnanc ctaacacatn ntncatttgg gancntatnt	120	
	acnncgatgn ccnnntncac tnttgaaaac cttnctttca aatgnncttt ggngcaagga	180	
	tacagnntat atcnntgcct tcnaaaaata aaaatnttct naatctaacc tcaaaatgga	240	
50	ntaaagacat cnatccctag nttagcgcnc acttggtnaa agaccgcnnn naaaancaa	300	
	agagtatgct gnttnccata tacngangat gagacgtctg ccacagtggc anncaaacct	360	
	tngtaggaa gatttaccat cnggggttnat tgntactggn gntnnccat atgtagggc	420	
	ggaattgctc cacaagaat agtctcattt gcacgagaga ctcaaataat ggactctanc	480	
	acaggaaaatg tcnattgggg ctccacaaata tacnancatg tagaanagaa aattgcctta	540	
55	agaaaaattt nacaattgnc taaacatctg aaacattttt atcacagctt tcatatatta	600	
	aaaaagtttc ctccanaaat gaagcttatt gangaaataa aacctagtca ctatcatctg	660	
	acccatgttc tgagccttta tctgangcct tgggtgggtg atcccccttg ttncgattca	720	
	tttccaaanc ctttgnaccg gaacctcat ttgttaggaa cctctt	766	
60	<210> 478		
	<211> 591		
	<212> DNA		
	<213> Homo sapiens		

<400> 478		
	agaacggnaa ctgaaaagag cgagagaaaag ggataaagaa cgagaacgcc aaagggattg	60
	ggaagacaaa gacaaaggac gagatgaccg cagagaaaaag cgagaagaga tccgagaaga	120
5	taggaatcca agagatggac atgatgaaag aaaatcaaag aagcgctata gaaatgaagg	180
	gagtcaccag cctagacagt ccccggaagcg ccggcggtgaa cattctccgg acagtgatgc	240
	ctacaacagt ggagatgata aaaatgaaaa acacagactc ttgagccaag ttgtacgacc	300
	tcaagaatct cgttctctta gtccctcgca cctcacagaa gacagacagg gtagatggaa	360
	agaggaggat cgtaaaccag aaaggaaaaga gagttcaagg cgctacgaag aacaggaact	420
10	caaggagaaa gtttcttctg tcgataaaca gagagaacag acagaaatcc tggaaagctc	480
	aagaatgcgt gcacaggaca ttataggaca ccaccagtct gaagatcgag agacatctga	540
	tcgagctctg atgaaaacaa gaagaaagcc aaaattcaaa gaaccnattt t	591
<210> 479		
15	<211> 583	
	<212> DNA	
	<213> Homo sapiens	
<400> 479		
20	aannggnttc ttttgaattt ttgctttctt cttgttttca tcatgagcnc gatcanatgt	60
	ctntcgatct tcaaactggg ggggncctat aatgncctgn gcncccattc ttgagctttc	120
	caggatttct gtctgttctc tctgtttatc tacaaaaaaa actttntcct tgagtctctg	180
	ttcttcgtag cnccttgaa cctntttcct ttctggntta caancctcct ntttccatct	240
	accctgtctg tcttntgnga ggggcgaggg actaaaaaaa cnaaatnttt gnggncgtac	300
25	aacttggtc aaanantctgg gtttttcatt tttatcatct ccnctgntgn aggcacact	360
	gtccgganaa tgttcacccc ggcgcttcgg ggactgtcta gggtgggac ncccttcatt	420
	tctatagccg cttctttgat tttctttcat catgnccatc tcttggtatc ctatcttctc	480
	ggatcttttn tcgcttttnt ttnggncat ctcggccttt nnntttgnnn tccccaaccc	540
30	tttggggntc tcgntcttta tncctttttt ctcgcttttt tcg	583
<210> 480		
	<211> 720	
	<212> DNA	
	<213> Homo sapiens	
35	<400> 480	
	ggcaggacct gtacagtgcc cgggacctgc agggcctcac cgtggagcat gccattgatt	60
	ccttccgaga aggggagaca atgattctta ccctcaagga caaaggcgtg ctgcaggagg	120
	aggaggacgt gctggtgaac gtgaacctgg tggataagga gcgggcagag aaaaatgtgg	180
40	agctgcggaa gaagaagcct gactacctgc cctatgccga ggacgagagc gtggacgacc	240
	tggcgagca aaaacctcgc tctatcctgt ccaagtatga cgaagagctt gaaggggagc	300
	ggccacattc cttccgcttg gagcaggcg gcacggctga tggcctgcgg gagcgggagc	360
	tggaggagat ccgggccaag ctgcgctgc aggtcagtc cctgagcaca gtggggcccc	420
	ggctggcctc cgaatacctc acgcctgagg agatggtgac ctttaaaaag accaagcgga	480
45	gggtgaagaa aatccgcaag aaggagaagg aggtagtagt gcgggcagat gacttgctgc	540
	ctctcgggga ccagactcag gatggggact ttggttccan aactgcgggg gacngggctc	600
	cccccaatg tncgcaatgg aggaagaaga angaaccttg tgccttaacc cctggcgctc	660
	gacgacaccc gaatnggaga acattggaca tcattgatta agaaggaagg tggagcttca	720
50	<210> 481	
	<211> 582	
	<212> DNA	
	<213> Homo sapiens	
55	<400> 481	
	aaggagggag ctttatttta tatgaaggtt gaggcagggc cggggcgggga gggcgctgtc	60
	acttggtgat ggtgttcgct tcatgctct tgccgctgcc gctgagcacg atgtaggggg	120
	tcttctgagc cttctgcttc tccctggagca ggccacggg gccaggggc gtgtcgctgg	180
	agctcatctt cttcaggagc gcctcctcgt ccagcttctt catccgcgc tctgtcttca	240
60	tcttgctga gcccttgcca tggaaagcgt gcgacagctg ccggaaagcc tccctgggtg	300
	tgagtttccg gcccgctca tccacgtatt cgatcttaac gtcgggtttg tagccgtcct	360
	tctccttgaa gtccgtgtgt aagcctcgtt attcctccct ccggctgtac ttgtcatcga	420
	tggccatctt atcctcgatg cantacacgg ctgagggcag cgacttggtg ggggccttac	480

	ccggggccacc	ttctgactgt	ggtctccaac	aaccctttgt	tctgacacaa	gaacagggca	540
	actgccagcc	ccctattcac	gatcgggtcc	tcgtcaagat	gg		582
5	<210> 482 <211> 704 <212> DNA <213> Homo sapiens						
	<400> 482						
10	aagatggcga	aggtctcaga	gctttacgat	gtcacttggg	aagaaatgag	agataaaatg	60
	agaaaatgga	gagaagaaaa	ctcaagaaa	agtgaacaaa	ttgtggaagt	tggagaagaa	120
	ttaattaatg	aatatgcttc	taagctggga	gatgatattt	ggatcatata	tgaacaggtg	180
	atgattgcag	cactagacta	tggtcgggat	gacttggcat	tgttttgtct	tcaagagctg	240
	agaagacagt	tccctggcag	tcacagagtc	aagcgattaa	caggcatgag	atttgaagcc	300
15	atggaaagat	atgatgatgc	tatacagcta	tatgatagga	ttttacaaga	agatccaact	360
	aacactgctg	caagaaagcg	taagattgcc	attcgaaaag	cccaggggaa	aaatgtggag	420
	gccattcggg	agctgaatga	gtatctggaa	caatttgttg	gagaccaaga	agcctggcat	480
	gaacttgca	aactttacat	caatgaacat	gactatgcaa	aagcagcctt	ttgttttagag	540
	gaactaatga	tactaatcc	acacaaccac	ttatactgtc	agcagtatgc	tgaagttaag	600
20	tatacccaan	ggtggacttg	aaaacctcga	acttttcaag	aaagtatttt	gcacaggcca	660
	ttgaaactgg	accacagaaa	ttttgaggag	ctttggtttg	gacc		704
	<210> 483 <211> 638 <212> DNA <213> Homo sapiens						
25	<400> 483						
	caagtttaat	aaatcatcat	ggttttattta	acaaggttat	actacattag	agttttatat	60
30	atatacatgt	atatgtgata	tgaagagact	gatgtacaat	caataagtct	taaatctctc	120
	ttccatggat	ttcccccatc	tccccactta	gcagtaaaaag	gcatttttag	gtttatataa	180
	acacattctt	tacaactgcc	ttcttaacag	aaaattactg	tagtatataa	atagcactga	240
	gcatttagta	aataagttac	aggccaataa	gttcaattgt	gcagttgnga	aatctaattg	300
	caaagagttt	ttgaaacctt	aanactgggt	gatctgcaat	gtttccaaca	tgtcttcgac	360
35	agccttaana	gaatatttgg	tttccttctt	acttcgacct	gcaaactgat	aagctctgtt	420
	tatttgacta	gctgccaac	tagcatattt	catgttgcc	ttttcgtttt	tgcacttgct	480
	tttgatttan	aagcaatatg	acttgccgac	atataaagtc	caaacaaagc	tctcatattt	540
	ctgttgttca	gtttcaatgc	ctgtgcaaaa	tactttcttg	aaagtccgag	ggtttcaagt	600
40	ncaccttggg	tatacttaac	ttcagcatatc	tgctgaca			638
	<210> 484 <211> 771 <212> DNA <213> Homo sapiens						
45	<400> 484						
	ttatagtaaa	gataacctctt	tacggactcc	acttatgact	ccctaaagcc	catgtcgaag	60
	cccccatcgc	tgggtcaata	gtacttgccg	cagtactctt	aaaactaggc	ggctatggta	120
	taatacgctt	cacactcatt	ctcaaccccc	tgacaaaaca	catagcctac	cccttccttg	180
50	tactatccct	atgaggcata	attataacaa	gctccatctg	cctacgacaa	acagacctaa	240
	aatcgctcat	tgataactct	tcaatcagcc	acatagccct	cgtagtaaca	gccattctca	300
	tcacaaacccc	ctgaagcttc	accggcgcag	tcattctcat	aatcgccac	ggacttacat	360
	cctcattact	attctgccta	gcaaaactcaa	actacgaacg	cactcacagt	cgcatacata	420
	tcctctctca	aggacttcaa	actctactcc	cactaatagc	tttttgatga	cttctagcaa	480
55	gcctcgctaa	cctcgctta	ccccccacta	ttaacctact	gggagaactc	tctgtgctag	540
	taaccacgtt	ctcctgatca	aatatcactc	tcctacttac	aggactcaac	atactagtca	600
	cagccctata	ctccctctac	atatttacca	caacacaatg	gggctcactc	acccaccaca	660
	ttaacaacat	aaaacctca	ttcacacgag	aaaacacctt	catgttcata	cacctatccc	720
60	ccattctcct	cctatccctc	aaccccgaca	tcattaccgg	gttttctctt	t	771
	<210> 485 <211> 728 <212> DNA						

<213> Homo sapiens

<400> 485

	aattaggagg	gcactggccc	ccaacaggca	tcaccccgct	aaatccccta	gaagtccac	60
5	tcctaaacac	atccgtatta	ctcgcatcag	gagtatcaat	cacctgagct	caccatagtc	120
	taatagaaaa	caaccgaaac	caaataattc	aagcactgct	tattacaatt	ttactgggtc	180
	tctattttac	cctcctacaa	gcctcagagt	acttcgagtc	tcccttcacc	atttccgacg	240
	gcatctacgg	ctcaacattt	tttgtagcca	caggcttcca	cggacttcac	gtcattattg	300
	gctcaacttt	cctcactatc	tgcttcatcc	gccaaactaat	atttcacttt	acatccaaac	360
10	atcacttttg	cttcgaagcc	gccgcctgat	actggcattt	tgtagatgtg	gtttgactat	420
	ttctgtatgt	ctccatctat	tgatgagggg	cttaaaaaaa	aaaaaaaaaa	ctcgagacta	480
	gcaagaagaa	gagaagagaa	gaaatgccga	tatattaaat	gaaaaaatta	gggaagaatt	540
	aggaagaatc	gaagagcagc	ataggaaaga	gttagaagtg	aaacaacaac	ttgaacaggc	600
	tctcagaata	caagatatag	aattgaagag	tgtagaaagt	aatttgaatc	angtttctca	660
15	cactcatgaa	aatgaaaatt	atctcttaca	tgaaaaattg	ctggtggaaa	aaaggaaatt	720
	gccatgct						728

<210> 486

<211> 742

<212> DNA

<213> Homo sapiens

<400> 486

	ganacanagt	ctcactntgt	cncccaggct	ggagtgcagn	ggcgagattc	gtgaacaagt	60
25	aattcttcac	nctgntatct	tatgtctgta	ggcttcagga	anaaatcatg	aatttttctt	120
	ctaaaataag	tnttctgttg	acncanacta	ttggtaanat	tttcaacata	aggggatgct	180
	aggactggcc	ncctancatg	agttgngagt	aaagatctgg	tctgttggtt	ctccaaaana	240
	agtttcttac	tgcttggttc	tcatgagttt	tctgnttctg	ctttctcttt	ttcatattga	300
	tatatacggg	tttttaaatg	gntattggaa	ttaaatatct	cctcattttt	ctcttttagg	360
30	anatgatgnt	genttttctt	ctcaagaaaa	tgaatatcaa	ttgntatctt	gcttttgntg	420
	gcanccttct	tatgngcntg	aactaattgc	tgntgaagcc	acataatttt	gctttgtagt	480
	tgaaataatt	tctgatctaa	agacncngc	tgntcagngn	gtttgttcac	attatcttgt	540
	tcgttttgat	acatgtgttc	agcttccttc	atttgacact	gngtttcacg	ttgggtctct	600
	tgggcntggt	ctgaaaccaa	tgntttttct	cttanagcat	ctncngcata	attgaaaata	660
35	atttttangc	ttttggattt	cctttgganc	ttcaaaaagn	ggtgatggga	ccctcattg	720
	ggtntatata	ggctactcac	at				742

<210> 487

<211> 757

<212> DNA

<213> Homo sapiens

<400> 487

	ttatagtaaa	gatacctctt	tacggactcc	acttatgact	ccctaagacc	catgtcgaag	60
45	cccccatcgc	tgggtcaata	gtacttgccg	cagtactctt	aaaactaggc	ggctatggta	120
	taatacgcct	cacactcatt	ctcaaccccc	tgacaaaaca	catagcctac	cccttccttg	180
	tactatccct	atgaggcata	attataacaa	gtccatctg	cctacgacaa	acagacctaa	240
	aatcgctcat	tgcatactct	tcaatcagcc	acatagccct	cgtagtaaca	gccattctca	300
	tccaaacccc	ctgaagcttc	accggcgag	tcattctcat	aatcgccccc	ggacttacat	360
50	cctcattact	attctgccta	gcaaactcaa	actacgaacg	cactcacagt	cgcatacaa	420
	tctctctca	aggacttcaa	actctactcc	cactaatagc	tttttgatga	cttctagcaa	480
	gectcgctaa	cctcgcccta	ccccccacta	tttaacctact	gggagaactc	tctgtgctag	540
	taaccacggt	ctcctgatca	aatatcactc	tcctacttac	aggactcaac	atactagtca	600
	cagccctata	ctccctctac	atattttacca	caacacaatg	gggctcactc	ccccacatt	660
55	aacaacataa	aaccctcatt	cacacgagaa	aacacctca	tgtcatacac	ctatccccat	720
	tctctctatt	cctcaacccg	aatattaccg	ggtttct			757

<210> 488

<211> 732

<212> DNA

<213> Homo sapiens

<400> 488

	aagaggaaaa	cccggtaatg	atgtcggggg	tgagggatag	gaggagaatg	ggggataggt	60
	gtatgaacat	gaggggtgtt	tctcgtgtga	atgaggggtt	tatgttggtt	atgtggtggg	120
	tgagtgaagg	ccattgtgtt	gtggtaaaat	ttgatcagga	gaacgtgggt	actagcacag	180
	tggttagtcc	tgtaagtagg	agagtgtat	ttgatcagga	gaacgtgggt	actagcacag	240
5	agagttctcc	cagtaggtta	atagtggggg	gtaaggcgag	gttagcgagg	cttgctagaa	300
	gtcatcaaaa	agctattagt	gggagtagag	tttgaagtcc	ttgagagagg	attatgatgc	360
	gactgtgagt	gcgttcgtag	tttgagtttg	ctaggcagaa	tagtaatgag	gatgtaagtc	420
	cgtgggcgat	tatgagaatg	actgcgcggg	tgaagcttca	gggggttttg	atganaatgg	480
	ctgttactac	nagggctatg	tggttgattg	aagagtatgc	aatgagcgat	tttaggtctg	540
10	tttgcgttaa	gcanatggag	cttggtataa	ttatgcctca	tagggatagt	ncaaggaang	600
	ggtaggctnt	gtttgtttgt	ccaggggggt	ganaaatagt	gtgagggcgt	nttataccat	660
	anccgcctan	ttttaanana	tcttgnngca	agtncttttg	acccnacnat	gggggcttca	720
	cattggcctt	ta					732
15	<210> 489						
	<211> 841						
	<212> DNA						
	<213> Homo sapiens						
20	<400> 489						
	aggagatcca	ccgcaagctc	tcagaggcca	ccagggagct	gcagaacgca	cccgacgcca	60
	tccctgagag	cggcgtggag	ccccagccc	tggacacggc	ctgggtggag	gccacgcgga	120
	agaaggcgct	gctgaagctg	gagaagctgg	acacagacct	gaagaactac	aagggcaact	180
	ccatcaaaga	gagcatccgg	cgcggccacg	acgacctggg	cgaccactac	ctggactgtg	240
25	gggacctcag	caacgccttc	aagtgtctat	cccgggcccg	ggactactgc	accagcgcca	300
	aacacgtcat	caacatgtgc	ctcaatgtca	tcaaggtcag	cgtctacttg	cagaattggg	360
	ctcatgtgct	cagctacgtc	agcaaggctg	agtccacccc	agagattgcc	gagcagcgag	420
	gagagcgtga	cagccagacc	caggccatcc	tcaccaagct	caagtgtgcc	gcaggcttgg	480
	cagagctggc	cgccaggaag	tacaagcagg	ctgccaaagt	cctcctgctg	gcttcctttg	540
30	atcactgtga	cttccttgag	ctgctgtccc	ccagcaacgt	ggccatctac	gggtggcctg	600
	gcgccttggc	tacctttgac	cggcaggagc	tgcagcgcaa	tgctcatctc	agcagctcct	660
	tcaagttggt	cttgagctg	gagccacang	tccgagacat	catctttaaa	ttctacgagt	720
	ncaagtacgc	ctcatgtctt	aagaatgctg	gaccaagaat	gaaaggacaa	ccttgctcct	780
	tggacattgt	atnttggggc	cccattgtta	aggacccctg	tacaccccaa	atttccaaac	840
35	c						841
	<210> 490						
	<211> 583						
	<212> DNA						
40	<213> Homo sapiens						
	<400> 490						
	aggagatcca	ccgcaagctc	tcagaggcca	ccagggagct	gcagaacgca	cccgacgcca	60
	tccttgagag	cggcgtggag	ccccagccc	tggacacggc	ctgggtggag	gccacgcgga	120
45	agaaggcgct	gctgaagctg	gagaagctgg	acacagacct	gaagaactac	aagggcaact	180
	ccatcaaaga	gagcatccgg	cgcggccacg	acgacctggg	cgaccactac	ctggactgtg	240
	gggacctcag	caacgccttc	aagtgtctat	cccgggcccg	ggactactgc	accagcgcca	300
	aacacgtcat	caacatgtgc	ctcaatgtca	tcaaggtcag	cgtctacttg	cagaattggg	360
	ctcatgtgct	cagctacgtc	agcaaggctg	agtccacccc	agagattgcc	gagcagcgag	420
50	gagagcgtga	cagccagacc	caggccatcc	tcaccaagct	caagtgtgcc	gcaagcttgg	480
	caaaactggn	cgccaggaan	tacaaacagg	cttgccaagt	gctctgctgg	cttctttgat	540
	actgngactt	cctgacttgt	tgtccccaca	acgtggcatc	tac		583
	<210> 491						
55	<211> 707						
	<212> DNA						
	<213> Homo sapiens						
	<400> 491						
60	aacgctgagt	ctgctcttta	atggacaccg	cccacttgct	tgcacctgac	tgaggcgggg	60
	acaggagggg	tctgggaaat	ggtgccactg	ggcctgggtg	ccgcacagtc	tgctccctgg	120
	ggacagaaac	ccacagggtc	gagccctgca	ggcctctcct	tccaggaagg	gccacaacta	180
	gcagccgcct	gcctcctcag	ccccagggag	ggcacacagg	ctgggtggca	cccagtggcc	240

	agggccctta	gctggggccgc	aggcagcact	gagccgcctg	gaggtccgag	gtccgtggag	300
	gtggggaggg	ggtgcaaatg	tcttgagggc	caagggttcac	ccctcacatg	ttggtgctca	360
	tccgggactg	gctgttggt	ggagtcagct	ccccctggct	cccttctctg	ggcggggact	420
	tgacatggat	ctggttgccg	agcacagctg	ccccgcagcat	catggccttg	gcgcggcgct	480
5	ggaactcctt	gccccatcaac	aganactttct	caaagggtggt	gctgcgctga	tccacgtnc	540
	ngggcgata	ggatcttgct	tgtgtgagtc	cacacnggca	ctgatcaacc	ccttcaagat	600
	taactgcgtc	aactcgtcct	ncaaggcngg	caccgtggta	tttgaaagg	tgccccatnc	660
	tatgcattgt	cggcttgaaa	cgtaagggct	tgaataactg	gaatgaa		707
10	<210> 492						
	<211> 765						
	<212> DNA						
	<213> Homo sapiens						
15	<400> 492						
	ggggcggtgga	gccccagcc	ctggacacgg	cctgggtgga	ggccacgcgg	aagaaggcgc	60
	tgctgaagct	ggagaagctg	gacacagacc	tgaagaacta	caagggcaac	tccatcaaag	120
	agagcatccg	gcgcggccac	gacgacctgg	gcgaccacta	cctggactgt	ggggacctca	180
	gcaacgcctt	caagtgtctat	tcccggggcc	gggactactg	caccagcgcc	aaacacgtca	240
20	tcaacatgtg	cctcaatgtc	atcaagggtca	gcgtctactt	gcagaattgg	tctcatgtgc	300
	tcagttacgt	cagcaaggct	gagtcacccc	cagagattgc	cgagcagcga	ggagagcgtg	360
	acagccagac	ccaggccatc	ctcaccaagc	tcaagtgtgc	cgcaggcttg	gcagagctgg	420
	ccgccaggaa	gtacaagcag	gctgccaaat	gcctcctgct	ggcttccctt	gatcactgng	480
	acttccctga	gctgctgtcc	cccaacaacg	tggccatcta	cgggtggcctg	tgcgcttggt	540
25	ctaccttttg	aaccggcagg	aacctgcaan	cgcaatgtca	tnttccagca	acttccctta	600
	agttgttctt	ggaacctgga	gccncaaggt	nccaaaacat	tatcttnaaa	attctaccaa	660
	gttccaagta	cccccttatt	gttnttnaaa	aatgccttgg	accgaaaaat	gaaanggaca	720
	aacctgggtc	cttgggaaaa	tgttttnttt	gggcccccca	ttggt		765
30	<210> 493						
	<211> 721						
	<212> DNA						
	<213> Homo sapiens						
35	<400> 493						
	ggaagaaggc	gctgctgaag	ctggagaagc	tggacacaga	cctgaagaac	tacaagggca	60
	actccatcaa	agagagcatc	cggcgcgggc	acgacgacct	gggcgaccac	tacctggact	120
	gtggggacct	cagcaacgcc	ctcaagtgtc	attcccgggc	ccgggactac	tgcaccagcg	180
	ccaaacacgt	catcaacatg	tgcttcaatg	tcatcaaggt	cagcgtctac	ttgcagaatt	240
40	ggtctcatgt	gctcagctac	gtcagcaagg	ctgagtcac	cccagagatt	gccgagcgag	300
	gagagcgtga	cagccagacc	caggccatcc	tcaccaagct	caagtgtgcc	gcaggcttgg	360
	cagagctggc	cgccagggaag	tacaagcagg	ctgccaaagt	cctcctgctg	gcttcccttg	420
	atcactgtga	cttccctgag	ctgctgtccc	ccagcaacgt	ggccatctac	ggtggcctgt	480
	gcgccttggc	tacctttgac	cggcaggagc	tgacgcgcaa	tgcatcttc	agcagctcct	540
45	tcaagtgtgt	cttggagctg	gagccacang	tccgagacat	catctttaa	ttctacgagt	600
	ncaagtacgc	ctcatgtctt	aagaatgtct	gaccaagaat	gaaaggacaa	ccttgctcct	660
	tggacattgt	atnttgggccc	cccattgtta	aggacccctg	tacaccccaa	atttccaaac	720
	c						721
50	<210> 494						
	<211> 550						
	<212> DNA						
	<213> Homo sapiens						
55	<400> 494						
	aacgtgagtg	ctgctcttta	atggacacog	cccacttgtc	tgcacctgac	tgaggcgagg	60
	acaggagggg	tctgggaaat	ggtgccactg	ggcctgggtg	cgcacagtc	tgctccctgg	120
	ggacagaaac	ccacagggtc	gagccctgca	ggcctctcct	tccagggaag	gccacaacta	180
	gcagccgcct	gcctcctcag	ccccaggagg	ggcacacagg	ctgggtggca	cccagtggcc	240
60	aggcccttta	gctggggccg	aggcagcact	gagccgcctg	gaggtccgag	gtccgtggag	300
	gtggggaggg	ggtgcaaatg	tcttgagggc	caagggttcac	ccctcacatg	ttggtgctca	360
	tccgggactg	gctgttggt	ggagtcagct	ccccctggct	cccttctttg	ggcggggact	420
	tgacatggat	cttgggttgcg	gancacaant	ncncnca	tcattggcct	ggnnccggng	480

	ctggaactct tcccatnaac anaaacttnt taaanggggg ngctgngctg atccncttc	540
	cgggcctnta	550
5	<210> 495	
	<211> 738	
	<212> DNA	
	<213> Homo sapiens	
	<400> 495	
10	ggaagaaggc gctgctgaag ctggagaagc tggacacaga cctgaagaac tacaagggca	60
	actccatcaa agagagcatc cggcgcggcc acgacgacct gggcgaccac tacctggact	120
	gtggggacct cagcaacgcc ctcaagtgtc attcccgggc ccgggactac tgcaccagcg	180
	ccaaacacgt catcaacatg tgcctcaatg tcatcaaggt cagcgtctac ttgcagaatt	240
	ggtctcatgt gctcagctac gtcagcaagg ctgagtcacac ccagagatt gccgagcgag	300
15	gagagcgtga cagccagacc caggccatcc tcaccaagct caagtgtgcc gcaggcttgg	360
	cagagctggc cgccaggaag tacaagcagg ctgccaaagt cctcctgctg gcttcctttg	420
	atcactgtga ctccctgag ctgctgtccc ccagcaacgt ggccatctac ggtggcctgt	480
	gcgccttggc tacctttgac cggcaggagc tgcagcgcaa tgtcatcttc agcagcttct	540
	tcaagtgttt cttggagctg gagccacagg tncgagacat catctttaaa ttctacgaag	600
20	tncaagtacc cctcatgttt tnaagatgct tggacgaaaa tgaaaggaca accttgctnc	660
	tggacaatgt atnttggccc ccattgttan ggaccctgta caacccaaaa tttcgcaacc	720
	ggngcccctc attcagtt	738
	<210> 496	
25	<211> 1082	
	<212> DNA	
	<213> Homo sapiens	
	<400> 496	
30	gccagattct gcacaagctc catttatcgt tggttcttgc ttttttcctt ctgtgttttt	60
	aattttttta aaacatttgt atgttctaga gaactagctt caaaaaaggc cgggtggctga	120
	tgatctttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat	180
	gtaagaagga tggggcagat ttcattttac cctctagtct ccctcaatgc atgcacggat	240
	ttatctgtac gctaagctct ctgctctgca tctgtagctc cttgtggatt atattgtctc	300
35	agtgatcaga aatgattttc tcggatatga acaccgtttc tggctcccct aaagtgcac	360
	ctcctaattg gacccggttt tacacttttc aagaatttgc tgcactgaca aaagaattaa	420
	atgctgcag ggaacaactt ctagaaaagg aagaagaaat ctctgaactt aaagctgaaa	480
	gaaacaacac aagactatta ctggagcatt tggagtgcct tgtgtcacga catgaaagat	540
	cactaagaat gacggtggta aaacggcaag ccaggtctcc ctcaggagta tccagtgaag	600
40	ttgaagttct caaggcactg aaatctttgt ttgagcacca caaggccttg gatgaaaagg	660
	taagggagcg actgagggtt tctttagaaa gagtctctgc actggaagaa gaactagctg	720
	ctgctaatac ggagattgtt gccttgctg aacaaaatgt tcatatacaa agaaaaatgg	780
	catcaagcga gggatccaca gagtcagaac atcttgaagg gatggaacct ggacagaaa	840
	tccatgagaa gcgtttgtcc aatggttcta tagactcaac cgatgaaact agtcaaatag	900
45	ttgaactaca agaattgctt gaaaaagcaa accaatgaaa tggcccaaat gaaaaaacgt	960
	ttaacagccc tttctttccg agtggggaga ngtggacaag gaagccgaga cngccaggaa	1020
	aggatctctt taaacccgaa gaaatggacc ccagtttca aagggaacatt tagggagggc	1080
	ct	1082
50	<210> 497	
	<211> 673	
	<212> DNA	
	<213> Homo sapiens	
55	<400> 497	
	tatcactgag aacagatggg cagggtccaca gcaactgccag attctgcaca agctccattt	60
	atcggttggt cttgcttttt tccctctgtg tttttaattt tttaaaaaac attgtatgtt	120
	ctagagaact agcttcacaa aaggctcgtg gctgatgatc tttcagctaa gatttcaaat	180
	gtagaagaac aattcaaaat gctatcagct tgtatgaag aaggatgggg cagatttcat	240
60	tttaccctct agtctccctc aatgcatgca cggattttat tgtacgctaa gctctctgct	300
	ctgcatctgt agctccttgt ggattatatt gtctcagtga tcagaaatga tttctctgga	360
	tatgaacacc gtttctggct cccctaaagt gcatcctcct aatgggaccc ggttttacac	420
	ttttcaagaa tttgctgcac tgacaaaaga attaaatgcc tgcagggaac aacttctaga	480

	aaaggaagaa gaaatctctg aacttaaagc tgaagaaac aacacaagac tattactgga	540
	gcatttggag tgccttgtgt cacgacatga aagatcacta agaatgacgg tggtaaaacg	600
	gcaagcccg tctccctcag gaggatccaa gtgaaagttg aagttctcaa ggcactggaa	660
	atctttgttg gac	673
5	<210> 498	
	<211> 796	
	<212> DNA	
	<213> Homo sapiens	
10	<400> 498	
	aaaccctgct cttgggnggg ngnggggtata atactaagtt ganatgatat catttacggg	60
	ggaaggcgct ttgtgaagta ggccttattt ctnttgcct ttcgtacagg gaggaatttg	120
	aagtanatag aaaccgacct ggattactcc ggtctgaact canatcacgt aggacttta	180
15	tcggtgaaca aacgaacctt taatagcggc tgcaccatcg ggatgtcctg atccaacatc	240
	gaggtcgtaa accctattgt tgatatggac tctaaaatag gattgcgctg ttatccctag	300
	ggtaacctgt tccgttggtc aagttattgg atcaattgag tatagtagtt cgctttgact	360
	ggngaagtct tancatgtac tgctcggagg ttgggttctg ctccgaggtc gccccaaccg	420
	aaatttttaa tgcaggtttg gtagtttagg acctgtgggt ttgttaggta ctgtttgcat	480
20	taataaatta aagctccata gggcttctcg tcttgcctg tcatgcccc tnttacgggc	540
	aggcaatttc actgggtaaa antaaaanac agctgaaccc tctggagcc ttcatacagg	600
	gncctnttta angaacaagt gatcttctcc tttgcacngg tangggaccc cggccgttaa	660
	acatgtgtan tgggcangcg ggcctttaat ctgngngang ctanaaggng atgtttttg	720
	taanaagcgg ggggtanaatt tgccgangtc cctttacttt ttaaccttc cttttaacct	780
25	cccgggttgg gtgacc	796
	<210> 499	
	<211> 776	
	<212> DNA	
30	<213> Homo sapiens	
	<400> 499	
	cagaaatgat tttctcggat atgaacaccg tttctggctc ccctaaagtg catcctccta	60
	atgggacccg gttttacact tttcaagaat ttgctgcact gacaaaagaa ttaaagtcc	120
35	gcagggaaca acttctagaa aaggaagaag aaatctctga acttaaagct gaaagaaaca	180
	acacaagact attactggag catttggagt gccttgtgtc acgacatgaa agatcactaa	240
	gaatgacggg ggtaaaacgg caagcccgat ctccctcagg agtatccagt gaagtgaag	300
	ttctcaaggc actgaaatct ttgtttgagc accacaaggc cttggatgaa aaggtaagg	360
	agcgactgag ggtttcttta gaaagagtct ctgcactgga agaagaacta gctgctgcta	420
40	atcaggagat tgttgccttg cgtgaacaaa atgttcatat acaaagaaaa atggcatcaa	480
	gcgagggatc cacagagtca gaacatcttg aagggatgga acctggacag aaagtccatg	540
	agaagcgttt gtccaatggg tctatagact caaccgatga aactagtcaa atagttgaac	600
	tacaagaatt tctgaaaag caaaaccaat gaaatggccc aaatgaaaaa acgtttaaca	660
	gccctttctt tccgagtggg gagangtga caaggaagcc gagacngcca ggaaaggatc	720
45	tctttaaaacc cgaagaaatg gacccccagt ttcaaaggga catttaggga gggcct	776
	<210> 500	
	<211> 725	
	<212> DNA	
50	<213> Homo sapiens	
	<400> 500	
	atctacttat ttttattaac ctttaaaaaa tatatataaa gcacacattg atttcaatgt	60
	ttactgtttg ttacaagtgt tttgggtcct tacttanaag ttcagtgatg tttctgtgac	120
55	cagaaatata tcataggaat gtcactctta tttatgtcag ttagcctatg gtaaaagtgg	180
	ttttattata cgtctttcac ttaagctcag ttccaagacc tattgaccac gttaagtaag	240
	gacttactac atactaagca tgaaaggaga caggttactg tcagagacag gagttacaaa	300
	tgcaattgac cctcgaatga catagtgtga actgcatggg tgctcttgtt agcanatatt	360
	tttcaagaaa tataaaaaaa tttggacgcc gggcacggta gctcacgcct gtaatccag	420
60	aactttggga ggccgaggcg ggcggatcac gaggtcagga gatccagacc atcctggcta	480
	acacgggtgaa aacccgtctc tactaaaaat acaaaaaaaa aaataggtgg gcgtgggtggc	540
	aggcgctgt agtccanct actcgggagg ctgtggcagg agaatggcgt gaacctggga	600
	ggcagagttt gcagtgagcc cgagattgag ccctgcactc cacctgagtg acaaaacgag	660

aatctggttg gattggaatg atgtctgctg catcatcagg gnagatggga atcctgggca 720
acttt 725

5 <210> 501
<211> 728
<212> DNA
<213> Homo sapiens

<400> 501
10 gttggttctt gcttttttcc ttctgtgttt ttaatttttt aaaaaacatt gtatgttcta 60
gagaactagc ttcacaaaag gtcggtggct gatgatcttt cagctaagat ttcaaatgta 120
gaagaacaat tcaaaatgct atcactgtct ccttggtgat tatattgtct cagtgatcag 180
aaatgatttt ctcggtatg aacaccgttt ctggctcccc taaagtgcac cctcctaagt 240
ggaccgggtt ttacactttt caagaagcac tgacaagatg tctggcttta acccatactg 300
15 aggtggtatg aatgatttat tcttccagga atttgctgca ctgacaaaag aattaaatgc 360
ctgcagggaa caacttctag aaaaggaaga agaaatctct gaacttaaag ctgaaagaaa 420
caacacaaga ctattactgg agcatttgga gtgccttggt tcacgacatg aaagatcact 480
aagaatgacg gtggtaaaac ggcaagccca gtctccctca ggagtatcca gtgaagtga 540
agttctcaag gcactgaaat ctttgtttga gccacaagg ccttggtatg aaangtaang 600
20 gagcgactga gggtttcttt anaaagaagt ctctgcctgg aagaaaaaac tagctgctgc 660
taatcaagga naatggttgc cttgcgtgaa ccaaatgtt catntttcca aagaaaaatg 720
gcttcaag 728

25 <210> 502
<211> 722
<212> DNA
<213> Homo sapiens

<400> 502
30 accaaacaaa cgtcctattg aagacttgat tectttcttc ttgggggctt tgtgaanaga 60
gtcttggctg ctgttggcac taccagccc gaggtttctt ggctcaagag agacagataa 120
actacttoga gcatcattgt ggtaggaaga agggagagtg tgagtcattc tgagggtctc 180
aggggttagga ggaggagaag ttccacattt aattgttgtt ttgtcctctc gaccatcttc 240
ttccacaact gcaatcttcc tccgatgttt cctcanatca cttggcagtg tcatgactcc 300
35 catccgatcc atttccctgg cagggcttcg aggggtgagc tttggagtgt agtgtccact 360
ggggggagat gaactggcca gcgatgaagc tgtaacagag gcagtaatgg aggtacctg 420
gtggaccctt gccaaattca ggccttcgag gctcacacta gccactctat tttcaatttc 480
ttcagcacgc aactctgtag attcttttcc ttcttgaatt agcctgattt ctttgttgat 540
ggcatccaat tgttcttgaa gcatcatggc tagcgtctgg gcatcggaat gaccacttgg 600
40 aagagagaag atccntttga gctnaaaatt ggttctctgn catcatcatc aatatcaaga 660
catttcaatg tcacttttca aaaagggggg nttgcttaat acctncaatc tgggtgaagt 720
ct 722

45 <210> 503
<211> 942
<212> DNA
<213> Homo sapiens

<400> 503
50 gccagattct gcacaagctc catttatcgt tggttcttgc ttttttctt ctgtgttttt 60
aattttttaa aaaacattgt atgttctaga gaactagctt cacaaaaggt cggtggctga 120
tgatcttttca gctaagattt caaatgtaga agaacaattc aaaatgctat cactgtgtat 180
gtaagaagga tggggcagat ttcattttac cctctagtct ccctcaatgc atgcacggat 240
ttatctgtac gctaagctct ctgctctgca tctgtagctc cttgtggatt atattgtctc 300
55 agtgatcaga aatgattttt tcggatatga acaccgtttc tggctccctt aaagtgcac 360
ctcctaattg gaccgggttt tacacttttc aagaatttgc tgcactgaca aaagaattaa 420
atgcctgcag ggaacaactt ctgaaaaagg aagaagaaat ctctgaactt aaagctgaaa 480
gaaacaacac aagactatta ctggagcatt tggagtgcct tgtgtcacga catgaaagat 540
cactaagaat gacggtggta aaacggcaag ccctgtctcc ctcaggagta tccagtgaag 600
60 ttgaagtctt caaggcactg aaatctttgt ttgagcacc aaggccttgg atgaaaaggt 660
aaggggagcga ctggagggtt tctttagaaa gagtctctgc ctggaagaaa actagctgct 720
gctaatacag agatggtggc cttgcgtgaa ccaaatgtt catatncaaa gaaaaatggc 780
ttcaagccga gggatccnc agagtcagaa catntttgaa gggatggaac ccgggacaga 840

aagtccttgn aaaagcggtg ntccaatggg ttttttagac ctcacccgat gnaaactggg 900
ccaatagntg gacttccaag aaatggntgg aaaagccaaa ct 942

5 <210> 504
<211> 717
<212> DNA
<213> Homo sapiens

<400> 504
10 gagatgtgaa cctttcacca tgaaaatgtt aaaagatata aaggaaggag ttaaacata 60
tggatccaac tccccttata taagaacatt attagattcc attgctcatg gaaatagact 120
tactccttat gactgggaaa ttttggccaa atcttccctt tcactctctc agtatctaca 180
gtttaaaacc tgggtggattg atggagtaca agaacaggta cgaaaaaatc aggtactata 240
gcccactgtt aatatagacg cagaccaatt gttaggaaca ggtccaaatt ggagcaccat 300
15 taaccaacaa tcagtgatgc agaatgaggc tattgaacaa gtaagggcta tttgcctcag 360
ggcctgggga aaaattcagg acccaggaac agctttccct attaattcaa ttagacaagg 420
ctctaagag ccatacctg ctttgtggca agattacaag atgctgctca aaagtctatt 480
acagatgaca atgcccgaag agttattgta gaattaatgg cctatgaaaa tgcaaatcca 540
gaatgtcagt ccggcataaa gccattaaaa gggaaagttc nacangagtt gatgtattac 600
20 agaatatgtg aagntttgta tgagattgga ggagctatgc ttaagnaatg cttatggntn 660
aagccatgan ggggctcact ctgangaca agtanaaatt tgggaaaaaa tgggttta 717

<210> 505
<211> 758
25 <212> DNA
<213> Homo sapiens

<400> 505
30 gtttaaccaa ttgagctttg agtgttctat tagttctttc aattatggcc tgtccttggg 60
aattatagag aattcctatt gtatgtgtaa ttttccactg atttaanaat ttttgaaatg 120
ctttactaca gtaacctggc ccattgtctg ttttaacttt ttctggaact cccatgacag 180
gaaaacaaga taataaatgt cttttaacat gggaagtact ttctcctgtc tggcaggttg 240
cccatatgaa atgtgaataa gtatcaactg tcacatggac aaatgacaat tttccaaatg 300
aaggtagctg catgacatcc atttgccata acacattagg acatagacct ctgggattaa 360
35 ctcttgctc ctgagtggcc aggtgtagaa tctgacactg ggtgcaatgt tgtacaatat 420
tttttgctg tttccatgtg atatcaaatt tattttttta tcctattgca tttacatgag 480
tcaaggcatg aagttcttgt gcttncatga atgcagatga tactagcaag tcagcttggt 540
catttgcttt anttaaaggc ccctggtaaa ttaagtgtgg ctccnaatnt gagtnatata 600
aaatggggaa atttcntttt cttacatttt gngngaacca aattaaacna gcnggggtta 660
40 accggtatcat ccattaatgg attttggtt aagggtcttt ctcaaatatt cctttgggag 720
cccggtacct acattatgcc aaaaatctgg ataccaat 758

<210> 506
<211> 748
45 <212> DNA
<213> Homo sapiens

<400> 506
50 agcaaccac agcgtggcg tctaattcac cagcaacaca ggacgcgcg ctgtatcctc 60
agccgcccac tgtgagactt aatcctacag catcacgtag tggacagggt ggtgcactgc 120
atgcagtcac tgatgaagcc agaaaacagg gcatcttga ggcattggcg ttcttggtta 180
ttttacaact ggtacaggcc ggggaagaga ctcaagttag agcgccctgc cgagctgaga 240
ctagatgtga acctttcacc atgaaaatgt taaaagatat aaaggaagga gttaaacaat 300
atggatccaa ctccccttat ataagaacat tattagattc cattgctcat ggaaatagac 360
55 ttactcctta tgactgggaa attttggcca aatcttccct tcactcctctc agtatctaca 420
gtttaaaacc tgggtggattg atggagtaca aagaacagg acgaaaaaat caggctacta 480
accctgtta tatagacgca gaccaattgt taggaacagg tcaaattgga gcccatatc 540
caacaatcat gatgcaaaat gaggtctntt acaagtaang gcttttgct caaggcctgg 600
ggaaaaatca ggaccaagaa cagtttccct ttattnatta gacnagggtt taaaagcatt 660
60 tctgctttgt gngagaatac aaaagctggt caaaatnttt ncaatgaaat gcccnaaagt 720
ttggnaatta tggctttgaa atccaatc 748

<210> 507

<211> 742
 <212> DNA
 <213> Homo sapiens

5 <400> 507
 gtttaaccaa ttgagctttg agtgttctat tagttctttc aattatggcc tgtccttggg 60
 aattatagag aattcctatt gtatgtgtaa ttttccactg atttaagaat ttttgaaatg 120
 ctttactaca gtaacctggc ccattgtctg ttttaacttt ttctggaact cccatgacag 180
 gaaaacaaga taataaatgt cttttaacat gggaagtact ttctcctgtc tggcagggtg 240
 10 cccatattgaa atgtgaataa gtatcaactg tcacatggac aaatgacaat tttccaaatg 300
 aaggtagcgt gcatgacatc catttgccat aacacattag gacatagacc tctgggatta 360
 actcttgccct cctgagtggc cagggtgtaga atctgacact ggggtgcaatg ttgtacaata 420
 ttttttgtct gtttccatgt gatatacaat ttatttttta atcctattgc atttacctga 480
 gtcaaggcat gaagttcttg tgcttccatg aatgcagatg atctagcaag tcagcttggt 540
 15 catttgcttt aattaaangc cctggtaaat tagtgngngc tcgaatatga gtaataataa 600
 atgggaaatt tctttttctt acattttggg nggaaccaa ataaacaagc ggggggttaac 660
 tggatcatnc ataattgatt tgantanggc tctctcaata tnccttggaa cccggctcta 720
 catttgacaga atctggatcc at 742

20 <210> 508
 <211> 718
 <212> DNA
 <213> Homo sapiens

25 <400> 508
 agtgtggtea ttgaggacaa gttgacgaga gagtcccaag tacgtccacg gtcagccttg 60
 cggtaagctt gtgtgcttag aggaaccacg ggtaacgatg gggcaaactg aaagtaaata 120
 tgcctcttat ctgagcttta ttaaaattct ttttaagaaga gggggagtta gagcttctac 180
 agaaaatcta attacgctat ttcaaacaat agaacaattc tgcccatggt ttccagaaca 240
 30 gggaacttta gatctaaaag attgggaaaa aattggcaaa gaattaaaac aagcaaatag 300
 ggaaggtaaa atcatccac ttacagtatg gaatgattgg gccattatta aagcaacttt 360
 agaaccattt caaacaggag aagatattgt ttcagtttct gatgcccta aaagctgtgt 420
 aacagattgt gaagaagagg caggacgaga atcccagcaa ggaacggaaa gttcacattg 480
 taaatatgta gcagagtctg taatggctca gtcaacgcaa aatgttgact acagtcaatt 540
 35 acaggagata atataccctg aatcatcaa attgggggaa ggaggtccag aatcattggg 600
 gccatcagag cctaaaccac gatcgccatc aactcctcct tccgcggttc aaatgcctgt 660
 acattcaacc tcaaaccgca ggtagacaa gcccaaacc ccaagagaaa atcaagtt 718

40 <210> 509
 <211> 725
 <212> DNA
 <213> Homo sapiens

45 <400> 509
 gatttttttc agcctcaatt gggacttctt tcctagtccc tttttaggga gctatcccat 60
 tttggtcatt atttttttat tcctggggct gtatatggag gctgggtag taatctctgc 120
 atgccattgt tgaacaagt ctcgcccca taaattgatt ggaatgaagt gatcacaggc 180
 tgaaccgtac tttcttgatt atcanatcct ggacaatgta aaatcatggc actttgatac 240
 acttctgagg cagtacctat gccgatgaca gaaacatcag cctgggtatc cactaatcct 300
 50 tcaaactctt tcctgaata gtgactgtac acacgggtct atcctctgag acctgattag 360
 cccaataagc agcttttctt gcagggttgg tacttccaaa cctcctgtt ctttctttt 420
 tgttttcccc aatttttaaca taaggcaaaa gcagtaattg agcaattcta tcacctggat 480
 tggcactccg gggaacagtg gagctgatca ctaactgaat tcccccttta taatctgagt 540
 aaattacccc agtatgaatt tggactccct tcaaattnan acttgatctc cctcaaggc 600
 55 ctaccctccc ttctggcagc gggccatata cccctctang aatcttttgt gggggctttc 660
 ccaggagtaa aaagaccatt tggggnggaa cataaatcta ctgcgggctg cctgctgggg 720
 cccgg 725

60 <210> 510
 <211> 998
 <212> DNA
 <213> Homo sapiens

	<400> 510	
	ggaagagggga agtcgtggtg gtcgcgaggg agccggaaa atggtgggta ccagatctgc	60
	acgggctaag gccagcatcc aagccgcgtc ggctgaaagt tccgggcaaa agagttttgc	120
5	tgctaattggg attcaagcgc atccagaaa tagtactgga tctgatgccc gaactactgc	180
	tgaatcacag accactggga agcaaaagttt aatccctaga actcctaag ctgaaagag	240
	gaagagcaga actacaggct cactacaaa ggggactgaa ccatctacgg atggagaaac	300
	ctctgaggca gagtcaaatt attctgtgtc tgagcaccat gataccattt taagggtaac	360
	taggagaagg cagatcttaa ttgcatgtc cccagtgtcc agtgtagga aaaagccgaa	420
10	agtaactcca acaaaggagt cttacactga agaaatagtg tctgaagcag aatctcatgt	480
	ttcagggtatt tctagaattg tgcttcttac agaaaaaact acaggagcca gaagaagtaa	540
	ggctaaatct ctgacagatc caagccaaga atctcatata gaagctatat ctgatgctga	600
	gacatcacgc tcgacattt cattctctgg aattgcaact agaagaacca ggagtatgca	660
	gaggaaatta aaggcacaaa ctgaaaagaa agatagtaag attgtaccag gaaatgagaa	720
	acagatctgt ggtacacctg tgaattcaga ggattcagat accagacaaa cttcccattt	780
15	acaagcaaga tctctttctg agataaataa gccaaatttc tataataatg actttgatga	840
	tgatttctcc cacagaagtt cagaaaatat attaacagtg caccgaacag gccaatgttg	900
	aatctcttaa agaaacaaa cagaattgta aggatttga tgaagatgcc aatggaataa	960
	cagatgaggg gaaagaaatt aatgagaaaa gttcttca	998
20	<210> 511	
	<211> 623	
	<212> DNA	
	<213> Homo sapiens	
25	<400> 511	
	gttaccagat ctgcacgggc taaggccagc atccaagccg cgtcggctga aagttccggg	60
	caaaagagtt ttgctgctaa tgggattcaa gcgcattccag aaagtagtac tggatctgat	120
	gcccgaacta ctgctgaatc acagaccact gggaagcaaa gtttaatccc tagaactcct	180
	aaagctagaa agaggagag cagaactaca ggctcactac caaaggggac tgaaccatct	240
30	acggatggag aaacctctga ggcagagtca aattattctg tgtctgagca ccatgatacc	300
	attttaaggg taactaggag aaggcagatc ttaattgcat gctccccagt gtccagtgtt	360
	aggaaaaagc cgaaagtaac tccaacaaag gagtcttaca ctgaagaaat agtgtttgaa	420
	gcagaatctc atgtttcagg tattttctaga attngcttc ctacagaaaa aactacagga	480
	gccagaagaa gtaaggntaa atctcttgac agatccaacc aagaatctca taccagaaac	540
35	tatatctgat gctgagacat caaagctcaa acatttcatt tctcttgga ttgccacct	600
	gaagaaccaa ganttttgcc cga	623
	<210> 512	
	<211> 655	
40	<212> DNA	
	<213> Homo sapiens	
	<400> 512	
	agntttccaa acgtctttaa taagtaaata aaggagcaat gtaaaatgtt gcagtttgc	60
45	tggtaaatct taattgcgaa atttcttctt ctttcggaac tttttctctg ctgcatttgc	120
	tgcttttttca gccatgatct ctgantactt ccttcgggtg tatcttctga attcanaatc	180
	agccagcagt tcttccacaa tagttctttt cctttgcttc ttgggaatnc gtgaatggta	240
	naaatcagct ggattgtcaa caatgggtcc aatctggaag tacttgggga agccatctct	300
	atcatttttc ttgnaaaatc ttttcgggtc catgtcggct ctcatcttca ntgctttgan	360
50	atcatttttc agttcatttg tcattttctg agctttcata ccaaaccagc catccctgn	420
	tggttttttg cgntcttttc tgcgtttttt ctgaagtga tnccttgatt cactatatgg	480
	nggaacacag tggttttttt caaaatcagg tgtaatgacg gctttctgca naaatcatt	540
	tttctttttc ncttgantc gngttanggt tctcttgta aactgnaatt tatctgntt	600
55	aaaattaata tacaaaccac ccaactgntt gatccttaaa ccaagggcta tgctg	655
	<210> 513	
	<211> 666	
	<212> DNA	
	<213> Homo sapiens	
60	<400> 513	
	cgagccatga taccatttta agggtaacta ggagaaggca gatcttaatt gcatgctccc	60
	cagtgtccag tgtaggaaa aagccgaaag taactccaac aaaggagtct tacactgaag	120

aaatagtgtc tgaagcagaa tctcatgttt caggatatttc tagaattgtg cttcctacag 180
 aaaaaactac aggagccaga agaagtaagg cttaatctct gacagatcca agccaagaat 240
 ctcatacaga agctatatct gatgctgaga catcaagctc agacatttca ttctctggaa 300
 ttgcaactag aagaaccagg agtatgcaga ggaaattaaa ggcacaaact gaaaagaaag 360
 5 atagtaagat tgtaccagga aatgagaaac agatcgtggg tacacctgtg aattcagagg 420
 attcagatac cagacaaact tcccattttac aagcaagatc tctttctgag ataaataagc 480
 caaatttcta taataatgac tttgatgatg atttctccca cagaagttca gaaaatata 540
 taacagtgc cgaacaggc caatgttgaa tctcttaaag aaacaaaaca gaattgtaag 600
 gatttgatg aagatgccaa tggaataaca gatgagggga aagaaattaa tgagaaaagt 660
 10 tcttca 666

<210> 514

<211> 699

<212> DNA

15 <213> Homo sapiens

<400> 514

ggaagagggg agtcgtggtg gtcgagggg agccggaaag atggtggtta ccagatctgc 60
 acgggctaag gccagcatcc aagccgctc ggctgaaagt tccgggcaaa agagttttgc 120
 20 tgctaattggg attcaagcgc atccagaaag tagtactgga tctgatgccc gaactactgc 180
 tgaatcacag accactggga agcaaagttt aatccctaga actcctaaag ctagaaagag 240
 gaagagcaga actacaggct cactaccaaa ggggactgaa ccatctacgg atggagaaac 300
 ctctgaggca gagtcaaatt attctgtgtc tgagcaccat gataccattt taagggtaac 360
 taggagaagg cagatcttaa ttgcatgctc cccagtgtcc agngtttagga aaaagccgaa 420
 25 agtaactcca acaaaggagt cttacactga agaaatantg tctgaagcaa aanctcatgt 480
 ttcangtatt tctagaattg ngcttcttac anaaaaaact acaggagcca gancaagtaa 540
 ggctaatact ctgacanatc caagccaaga atctcataca gaagctatat ctgatgcttg 600
 aacatcaagc tcagacattt nattctctgg aattgcaact agaanaacca ggaattntgc 660
 ngagggaaat ttaagggccc caactggaaa agaaaggat 699
 30

<210> 515

<211> 759

<212> DNA

35 <213> Homo sapiens

<400> 515

agttttccaa acgtctttaa taagtaaata aaggagcaat gtaaaatggt gcagtttgc 60
 tggtaaactc taattgcgaa atttcttctt ctttcggaac tttttctctg ctgcatttgc 120
 tgctttttca gccatgatct ctgagtactt ccttcggttg tatcttctga attcagaatc 180
 40 agccagcagt tcttcacaa tagttctttt cctttgcttc ttgggaattc gtgaatggta 240
 gaaatcagct ggattgncaa caatgggtcc aatctggaag tacttgggga agccatctct 300
 atcatttttc ttgnaaaatc ttttcgggtc catgctggct ctcatcttca gtgctttgag 360
 atcatttttc agttcatttg tcatctctgg agctttcata ccaaacaccg catccctgc 420
 tgttttttgt cgttcttttc tgcgtttttt ctgaagttag tctttgattc actatatggn 480
 45 ggaacacagt ggtttttttc aaaatcangn gtaatggacn gctttctgca naagcccatt 540
 tttctttttc tcntggatc tgggntaang ggtcctcttg ntagaactgg gagtttatct 600
 nccttaaaaa ttaatatata aaccncccca ctgnttgntn nctcaaaaac nagggntat 660
 tctgttgct tgctnacctt caaaaagttt aaccctttg ngcctnttta aggaaagcnt 720
 ttttattact aaactcanct ttnattttcn gcatggggc 759
 50

<210> 516

<211> 1072

<212> DNA

55 <213> Homo sapiens

<400> 516

gtgacgacat agaacaggag acctttatgc ttgatgagcc attagaaaga accacaaata 60
 gctcccacgc caatgggtgc gcccaagctc cccgttcaat gcagtgggct gtccgcaaca 120
 cccagcatca gcgagcagcc agtacagccc cttccagtag atctacacca gcagcaagtt 180
 60 cagcggggtt gatttatatt gatccttcaa acttacgccg gagtgggtacc atcagtacaa 240
 gtgctgcagc tgcagcagct gctttggaag ctagcaacgc cagcagttac ctaacatctg 300
 caagcagttt agccagggtc tacagcattg tcatagaca aatctcggac ttgatgggccc 360
 ttattcctaa gtataatcac ctagtatact ctcagattcc agcagctgtg aaattgctta 420

	ccaagatgca	gtaaacttac	agaactatgt	agaagaaaag	ctcattccca	cttggaaactg	480
	gatggtcagt	attatggatt	ctactgaagc	tcaattacgt	tatggttctg	cattagcatc	540
	tgctggatgat	cttggacatc	caaatacatcc	tcttcacgct	tctcagaatt	cagcgagaag	600
	agagaggatg	actgcgcgag	aagaagctag	cttacgaaca	cttgaaggca	gacgacgtgc	660
5	caccttgctt	agcgcccgtc	aaggaatgat	gtctgcacga	ggagacttcc	taaattatgc	720
	tctgctctaa	tgcggctcat	aatgatgagc	attctgatgt	tcttccagtt	ttggatgttt	780
	gctcattgaa	gcattgtggca	tatgtttttc	aaagcactta	tatactggat	taaggnaatg	840
	aatcagcaga	cacatttgga	tcnccctcaa	ctagaaccn	aaaggacgcg	agaactcttg	900
	ggactgggtt	ttgntatgaa	attcanaaca	tgaaatgatg	atgacaccat	caaangcttc	960
10	tttgatgata	agntgatgac	tctttctgcy	aactggccaa	acnatcattt	ttccacgtca	1020
	actcntgcat	tccttgngg	ttcccccaat	cncttgaagg	ccctggtgaa	ac	1072

<210> 517

<211> 767

<212> DNA

<213> Homo sapiens

<400> 517

	gttttagccag	ggcttacagc	attgtcatta	gacaaatctc	ggacttgatg	ggccttatctc	60
20	ctaagtataa	tcacctagta	tactctcaga	ttccagcagc	tgtgaaattg	acttaccaag	120
	atgcagtaaa	cttacagaac	tatgtagaag	aaaagctcat	tcccacttgg	aactggatgg	180
	tcagtattat	ggattctact	gaagctcaat	tacgttatgg	ttctgcatta	gcattctgctg	240
	gtgatccttg	acatccaaat	catcctcttc	acgcttctca	gaattcagcg	agaagagaga	300
	ggatgactgc	gcgagaagaa	gctagcttac	gaacacttga	aggcagacga	cgtgccacct	360
25	tgcttagcgc	ccgtcaagga	atgatgtctg	cacgaggaga	cttcctaaat	tatgctctgc	420
	tctaatacgg	ctcataatga	tgagcattct	gatgttcttc	cagttttgga	tgtttgctca	480
	ttgaagcatg	tggcatatgt	ttttcaaagc	acttatatac	tggattaagg	naatgaatca	540
	gcagacacat	ttggatcncc	ctcaactaga	accnnaaagg	acgcgagaac	tcttgggact	600
	gggttttgn	atgaaattca	naacatgaaa	tgatgatgac	accatcaaan	gcttctttga	660
30	tgataagntg	atgactcttt	ctgcgaactg	gccaaacnat	cattttttcca	cgtcaactcn	720
	tgcattcctt	ggnggttccc	ccaatcnctt	gaaggccctg	gtgaaac		767

<210> 518

<211> 765

<212> DNA

<213> Homo sapiens

<400> 518

	attttacatg	tctttatctt	acatttagaa	ccgttttatg	atttacttaa	aaaaaaaaatc	60
40	ttttactatt	attagaagta	ttttttaacc	aaaatcttga	tttaggaaga	cttaagacat	120
	tgtgcattat	tttaaatatt	ttcatttcag	taactattaa	aaataaattc	acaattaggg	180
	tttcaaattg	cctaatacata	tctagtttgt	tctcatttaa	tattttatca	atcccatcat	240
	gtgcatacag	aggtttaagg	gatgtataaa	ttttatatct	ttcaaacaca	ttgatgctaa	300
	tcagctcttg	atctaattac	tatttcattt	attcagaaat	agcatttaga	cataaaaacc	360
45	aatgtctcac	tttgtaaaat	aacctttggc	taatttacac	acatctaata	cagcgtgtta	420
	tataagtttt	aagtaataca	atgagtcact	actatcattc	agtttttaaat	atttttagtg	480
	ttaacagggc	tgagaatatc	atgtggttca	gtcttctgaa	ggaagtata	taataaaagc	540
	atagtgcctt	tgaacatgaa	gactatcctc	aaggccagaa	atcctacaaa	gggaactgaa	600
	aggagagatt	ncagagaatt	gctctcctca	tttttaatat	gtaaagggac	tggtttaagt	660
50	cacttcattg	gaagacttta	aggaaanaaa	acaggggtat	tttgccctg	gataaagcta	720
	ccttaaaccc	aaaggaattt	tnggggatat	taatccctag	gcttc		765

<210> 519

<211> 571

<212> DNA

<213> Homo sapiens

<400> 519

	gtgacgacat	agaacaggag	acctttatgc	ttgatgagcc	attagaaaga	accacaaata	60
60	gctcccatgc	caatgggtgct	gcccaagctc	cccgttcaat	gcagtgggct	gtccgcaaca	120
	cccagcatca	gcgagcagcc	agtacagccc	cttccagtag	atctacacca	gcagcaagtt	180
	cagcgggttt	gatttatatt	gacccctcaa	acttacgccc	gagtggtagc	atcagtacaa	240
	gtgctgcagc	tgacgcagct	gctttggaag	ctagcaacgc	cagcagttac	ctaacatctg	300

	caagcagttt agccagggct tacagcattg tcattagaca aatctcggac ttgatggggc	360
	ttatttcctaa gtataatcac ctagtatact ctcagattcc agcagctgtg aaattgctta	420
	ccaagatgca gtaaaacttac agaactatgt agaaaaaaag cttattccct tggaaactgga	480
	tgggcagnat tatggattct ctgaagcnc aatccctatg ggtctgcatt tcanctgntg	540
5	gggaancngg aattcaanaa ttctctttcg c	571
	<210> 520	
	<211> 681	
	<212> DNA	
10	<213> Homo sapiens	
	<400> 520	
	catacttaat tttttatatt gaaattccct attccctcta tacaagaacc tttgctgaaa	60
	cagtttccac aaaggcagca gtgaattttc agaacattta cattttttcc ccctcagcaa	120
15	aaagataaat cacagtgtaa attatgttgt tctgctgtca tctttggctg ggggttagacc	180
	canaagttgg tgactagcaa accaatatag ccaaagtgtg ctagtgtctc ttaggccttt	240
	aagctataaa ctcagcaagg aatgtctgca ttttatctct ttaaggtacc accagggggg	300
	tatgacagca ttaacttcca taaactttta tagacaaatg gaaaaaaatc tacaaaattt	360
	gctagtaata ttacacagca atacacactt tttatactct acacaaaacc aaaattcttg	420
20	gtcttaaatgg cgagtaacaa tttctgtttg agaatctgtt tagaggaata gagtgggacg	480
	taaagtcgag aaatgcaagt atttgcagta ggaagatgtt ggtcatctgg tggctctatt	540
	gtgattgagg gcataggctg gaatccttct tcaactggctg gcaatgatgg gcttgatgtc	600
	caaaagtaaa caagatcttg ncggtctgnc atgctcatct tctctactat tgaccanaac	660
25	caacgcttga actggaaaaa c	681
	<210> 521	
	<211> 1890	
	<212> DNA	
	<213> Homo sapiens	
30	<400> 521	
	gcgggttcca gttgtgattg ctggagttgt gtattgccag gaggtctctc gagattgggg	60
	tcgggtcact gctcatcca ccggagcgat ggcgtttctc cgaagcatgt ggggcgtgct	120
	gagtgcctcg ggaaggctcg gacagagct gtgcaccggc tgtggaagtc gactgcgctc	180
35	cccttcagtt tttgtgtatt taccgaggtg gttttcatct gtcttgcaa gttgtccaaa	240
	gaaacctgta agttcttacc ttcgattttc taaagaacaa ctaccatat ttaaagctca	300
	gaaccagat gcaaaaacta cagaactaat tagaagaatt gccacgcgtt ggagggaact	360
	tcctgattca aagaaaaaaa tatatcaaga tgcttatagg gcggagtggc aggtatataa	420
	agaagagata agcagattta aagaacagct aactccaagt cagattatgt ctttggaaaa	480
40	agaaatcatg gacaaacatt taaaaaggaa agctatgaca aaaaaaaag agttaacact	540
	gcttgaaaaa ccaaaaagac ctcggtcagc ttataaccgt ttatgtagct gaaagattcc	600
	aagaagctaa ggggtgattca ccgcagggaa aagctgaaga ctgtaaaagg aaactggaaa	660
	aatctgtctg actctgaaaa ggaattatat attcagcatg ctaaaaggga cgaaactcgt	720
	tatcataatg aaatgaagtc ttgggaagaa caaatgattg aagttggacg aaaggatctt	780
45	ctacgtcgca caataaagaa acaacgaaaa tatggtgctg aggagtgtta aaagtagaag	840
	attgagatgt gttcacaaat gataggcaca ggaaaccagt taggtctcaa tacctgaagc	900
	tatcgtaaaa ttaagaaagg ataaagttgg taaacctttt atatttagta tctttttatt	960
	cagctcatgg acttctgcca gcataatact tgctttggaa aaccagata aaggttcatg	1020
	caaactttat tttgtgttta ggaactactg aggatcagag taatccaagc aaatgtgaat	1080
50	cattttacct ttgacaaagg taaatcagac tatgaagttt tttttatata ggatgatgac	1140
	tatggaaaga gtactcttgt ttctttatat tatggaggca ggagtttcgt tttcaaaatt	1200
	gttcaaatg tagaaaccac ggggtctgtg atataagtg gtgtttttca taaagcaggc	1260
	agaactcatt taggtaaatt ncagttcnta ggtataattc acattgtatt cagagttgat	1320
	ggttgacata taagtgttg ctgggttttag ttgcaacttt gtataaaagg gactgagaaa	1380
55	tttataaact tttttcttac tgtctttttt ctaaagtaaa aacaaagaaa ttatgtgcca	1440
	gatttatgca tattatttta tgttgcatag aataaaattt ttaatcttta attttacatt	1500
	tcctaaatat attttaagnc gaaacatttg ttctatagct tttccctttt ttttaagtaag	1560
	gaatttttat tttttctgaa ttattttctc tcgtgagtat attgatccag aaagaaaaat	1620
	tgtattatgt gtgtttttaa atgagaaatn taaaaaacga aaagtctcca aagtctctgg	1680
60	aatttgaaac nctttgcata acgtataaaa gcctgtttta gagacagcca actatggcct	1740
	gtggatcaaa tccagcctgc tgcctgcttt ttatggcctg tgagctagga attgtgttta	1800
	taattttaaa tgtttttttt taaagacttt tatgatactt gaaaattaac atgaatat	1860
	agtgttcata aataaagttt gttgaaaccc	1890

	<210> 522	
	<211> 763	
	<212> DNA	
5	<213> Homo sapiens	
	<400> 522	
	ctggaaaaat ctgtctgact ctgaaaagga attatatatt cagcatgcta aagaggacga 60	
	aactcgttat cataatgaaa tgaagtccttg ggaagaacaa atgattgaag ttggacgaaa 120	
10	ggatcttcta cgtcgcacaa taaagaaaca acgaaaatat ggtgctgagg agtggtaaaa 180	
	gtagaagatt gagatgtgtt cacaatggat aggcacagga aaccagttag gtctcaatac 240	
	ctgaagctat cgtaaaatta agaaaggata aagttggtaa accttttata tttagtatct 300	
	ttttattcag ctcattgact tctgccagca taatacttgc tttggaaaac ccagataaag 360	
	gttcatgcaa actttatttt gtgttttagga actactgagg atcagagtaa tccaagcaaa 420	
15	tgtgaatcat tttacctttg acaaaggtaa atcagactat gaagtttttt ttatacagga 480	
	tgatgactat ggaagagta ctcttgtttc cttatattat ggaggcagga gtttcgtttt 540	
	caaaattggt caaattgtag aaaccacggg gtctgtgata taagtggngg ttttcataaa 600	
	gcangcagaa ctcatttagg taattacagg tncataggata attcacattg tttcaaaggt 660	
	gatgggtggn atataatgat tgnatggtta gtgcactttg tttaaangga ctgaaaaata 720	
20	taacctttct tangcttttc taaagaaaac aaaaaattg tgc 763	
	<210> 523	
	<211> 714	
	<212> DNA	
25	<213> Homo sapiens	
	<400> 523	
	gggtttcaac aaactttatt tatgaacact aaatattcat gttaattttc aagtatcata 60	
	aaagtcttta aaaaaaaca tttaaaatta taaacacaat tccatagctca caggccataa 120	
30	aaagcaggca gcaggctgga tttgatccac aggccatagt tggctgtctc ttaaacaggc 180	
	ttttatacgt tatgcaaagt gtttcaaatt ccagagactt tggagacttt tcgtttttta 240	
	gatttctcat tttaaaacac acataataca agttttcttt ctggatcaat atactcacga 300	
	gagaaaataa ttcagaaaaa aataaaattc cttacttaaa aaaagggaaa agctatagaa 360	
	caaatgtttc gtcttaaaat atatttagga aatgtaaaat taaagattaa aaattttatt 420	
35	ctatgcaaca taaaataata tgcataaatc tggcacataa tttctttgtt tttactttag 480	
	aaaaaagaca gtaagaaaaa agtttataaa tttctcagtc ctttttatat aaagttgcaa 540	
	ctaaaaccag caatcactta tatgtncacc atcaactctg aatacaatgt gaattatacc 600	
	taaggaactg taatttacct agatgagttc tgnctgcttt atgaaaaaca cacacttatn 660	
	tcacaaaaca ccngngcttt ctcnatttgn aacaaatttt gnaaaaccaa aact 714	
40	<210> 524	
	<211> 784	
	<212> DNA	
	<213> Homo sapiens	
45	<400> 524	
	gcgggttcca gttgtgattg ctggagttgt gtattgccag gaggtctctc gagattgggg 60	
	tcgggtcact gccatccca ccggagcgat ggcgtttctc cgaagcatgt ggggcgtgct 120	
	gagtgccttg ggaaggtctg gagcagagct gtgcaccggc tgtggaagtc gactgcgctc 180	
50	cccttcagt tttgtgtatt taccgaggtg gttttcatct gtcttgcaa gttgtccaaa 240	
	gaaacctgta agttcttacc ttcgattttc taaagaacaa ctaccatata ttaaagctca 300	
	gaaccagat gcaaaaacta cagaactaat tagaagaatt gccagcgtt ggagggaact 360	
	tcttgattca aagaaaaaaa tatatcaaga tgcttatagg gcggagtggc aggtatataa 420	
	agaagagata agcagattta aagaacagct aactccaagt cagattatgt ctttgaaaaa 480	
55	agaaatcatg gacaaacatt taaaaaggaa agctatgaca aaaaaaaaag agttaacact 540	
	gcttgaaaaa ccaaaaagac ctctgtcagc ttataaccgt ttatgtagct gaaagattcc 600	
	aagaagctaa ggtgattca ccgcaggaa aagctgaaga ctgtaaaagg aaactggaaa 660	
	aatctgtctg accttgaaaa ngaattatnt attcancatg ctnaaaggag acgaaactcg 720	
	ttntcataat gaaatgaagt ctttggaag aacaaatgat tgaaatttgg accaaaagga 780	
60	tctt 784	
	<210> 525	
	<211> 658	

<212> DNA

<213> Homo sapiens

<400> 525

5	gggtttcaac aaactttatt tatgaacact aaatattcat gttaattttc aagtatcata	60
	aaagtcttta aaaaaaaca tttaaaatta taaacacaat tcctagctca caggccataa	120
	aaagcaggca gcaggctgga tttgatccac aggccatagt tggctgtctc ttaaacaggc	180
	ttttatacgt tatgcaaagn gtttcaaatt ccagagactt tggagacttt tcgtttttta	240
	natttctcat tttaaaacac acataatata agttttcttt ctggatcaat atactcacga	300
10	gagaaaataa ttcagaaaaa aataaaattc cttacttaaa aaaagggaag agctatagaa	360
	caaagtgttc gnccttaaaat atatttagga aatgtaaaat taaagattaa aaattttatt	420
	ctatgcaaca taaaataata tgcataaatc tggcacataa tttctttgtt ttacttttag	480
	aaaaaagaca gtaagaaaaa agttttataaa tttctcagtc cctttttatac aaagttgcaa	540
	ctaaaaccag caatcactta tatgtcaacc atcaactctg aatacaatgt gaattatacc	600
15	tangaactgn aatttaccta aatgagttct gcctgcttta tgaaaaacac acacttat	658

<210> 526

<211> 725

<212> DNA

<213> Homo sapiens

<400> 526

	ggagcgcgca cagtcggctc gcagcgcggc actacagcgg ccccgggccc gccccgccc	60
	ggccccggcg caggcagttc agattaaaga agctaattga tcaagaaatc aagtctcagg	120
25	aggagaagga gcaagaaaag gagaaaaggg tcaccaccct gaaagaggag ctgaccaagc	180
	tgaagtcttt tgctttgatg gtggtggatg aacagcaaaag gctgacggca cagctcacc	240
	ttcaaagaca gaaaatccaa gagctgacca caaatgcaaa ggaaacacat accaaactag	300
	cccttgctga agccagagtt caggaggaag agcagaaggc aaccagacta gagaaggaac	360
	tgcaaacgca gaccacaaag tttcaccaag accaagacac aattatggcg aagctcacca	420
30	atgaggacag tcaaaatcgc cagcttcaac aaaagctggc agcactcagc cggcagattg	480
	atgagttaga agagacaaac aggtctttac gaaaagcaga agaggagctg caagatataa	540
	aagaaaaaat cagtaaggga gaatatggaa acgctggat catggctgaa gtggaagagc	600
	tcangaaacg tgtgctagat atggaaggga aagatgaaga gctcataaaa atggaggag	660
	cagtgcagag atctcaataa gangctttga aaggagagacg tttcaaatta agacttttaa	720
35	ctaga	725

<210> 527

<211> 764

<212> DNA

<213> Homo sapiens

<400> 527

	aaaaataaca aattatttac tgttttataa tgttaaagta tttcaccaan acaagttgca	60
	gtcaaattaa agtgagttat ggaaaaatgaa atacataaag atgtntttat acaagngcan	120
45	actaaatntt ttccatacaa gtntgtaaat gaaaanant acagtaagng cncactcgat	180
	ntgactntgc aggcaacagt tagtttcaaa tactcttgn tagttcatgc ncaaacccttc	240
	ccaaagtacg agttcagtc gtcttggggg atntggaggg atgattaaaa aaggattgag	300
	ttccttgcaa aaatatcagt ntggactgga tgagggtgag ccgtggtcag ttatatatat	360
	tacttactgt aatttgtgat tgcaaggaaa aggtgtggct gttggtgtga tagtaatact	420
50	gctgngact ttattggttg ntgtgtttag ggccccgtta attaaagcctt gaggtcgggt	480
	atcctganc ggtgctgaag ggctggcagg tctcacaggg ctggcttcag ctttgcattg	540
	aaggacttcc taagggaatg nggattttat tatnctcagt agttatcaca cttgagcttt	600
	gntgggtgaa cccnaactg ccatgatgac tggccgggtc gggganacct tnaatatcca	660
	tgcttggcac tggattntg ntgggtntng gggagcggnc ctgttcagga nancttctga	720
55	ccanccagcc aaacctggaa tggggnattg nccttttgga gtaa	764

<210> 528

<211> 767

<212> DNA

<213> Homo sapiens

<400> 528

agagcaggaa aatggactca ttagggaggc aggcagtcac taccactcac actgtacttc	60
---	----

	caggagagaca	ccgattataa	gaagagaaac	tcagcgctgg	ggaagaagge	actgccagga	120
	cttaccgtac	aacactcctt	ggcttctgga	attttatctc	tgctcacagt	ctacattaca	180
	acattagttc	attctgggca	ctttagcttc	cttgaatctc	cagttgatct	cacacccatg	240
	cctatgatat	tcttctcctg	gttaatcaag	aattctctat	ttctgctccg	tcatccatgc	300
5	cactacaaat	aaaaagaagt	gttaagaatt	gcctttggga	ctctgaagge	tgaagaattg	360
	atgaattgca	agtttgtgcc	ccatagctgc	acagactgcc	tgaagttaca	tttagagact	420
	gaaatcactg	caccttaaaa	acaaaagatt	gagctgcact	gtattcctaa	tgtttcatca	480
	ttactaacag	gatattcctc	atgacattgc	tgtctgatct	ttgaccatca	gtctgtgacc	540
	tgccccttct	ctttacatgc	agccgctctc	tgctccctgc	cccaatgaac	atctgacta	600
10	ggcccaagcc	ttggagtaat	ttacctgaag	agtgcacca	ttgatttttg	aaactactgg	660
	agaaacccaa	gacagctgaa	aaccagaagg	cttntgagga	ggaatgagat	tactcaaccc	720
	ggtgggatcc	agcgcccaag	cccgggcttt	ccctgectga	acctttg		767
	<210> 529						
15	<211> 681						
	<212> DNA						
	<213> Homo sapiens						
	<400> 529						
20	actttttttt	aaaagatttt	tttgtaaaga	agggttgtat	ttagaggcca	gtagctagag	60
	atccaaaccag	tggacctctt	gaagcactac	caggcccttaa	ggccaccatc	cgagggagac	120
	tgggaaaact	attattcacc	caagcctccg	gaaatgtaat	gtaccagcag	gcaaaaaaca	180
	gttcttcatg	tagtacaaaa	tgaacgaaa	caaaaacaaa	aacagaaagt	aaaaatgaaa	240
	ccaaaacatt	tcttaaatc	tagtgccata	gcttttttgt	ttgtttgttt	tttgtgttg	300
25	ttttgttttg	ttcataagaa	agagagaaag	atactactta	tccgtcagac	acatgcatcc	360
	tcattgtggtc	gttgaactgc	tcgattttgt	caaactttgc	tgggcagacg	gagcagacgt	420
	aagtgtgtccc	ctccgtgcag	gccaccacgc	ctggggggcc	agcgcgggca	cctgggggtg	480
	tgctgcagg	gggggtccat	tgctggcact	gtgcagggcc	acgtgtcgct	ccaagagggt	540
	cttgtgagan	aactntttt	tcagatgta	gcacntcgaa	gactttttt	ccccngggga	600
30	ngcgcatgtc	acnttgaagg	gagctntttt	tgggtgaaac	acttgttgna	aatactacct	660
	gggatgcct	cacttctgtg	t				681
	<210> 530						
	<211> 812						
35	<212> DNA						
	<213> Homo sapiens						
	<400> 530						
40	gtctgaagga	ggtaccagat	tatttgatc	acattaaaca	tcccatggac	tttgccacaa	60
	tgaggaaacg	gttagaagct	caagggtata	aaaacctcca	tgagtttgag	gaggattttg	120
	atctcattat	agataactgc	atgaagtaca	atgccaggga	caccgtgttc	tatagagccg	180
	cggtaggct	gcgcgatcag	ggaggtgttg	ttctgaggca	ggcccgccgc	gaggtggaca	240
	gcctcggtt	ggaagaggcc	tcggggatgc	acctgcctga	gcggcctgct	gcggcaccgc	300
	ggcgcccttt	ctcctgggaa	gacgtggaca	ggttgctgga	ccccgccaac	agagcccacc	360
45	tgggcctgga	ggagcagctg	agagagctgc	tggacatgct	cgacctcacc	tgcgctatga	420
	agtccagcgg	ctcccgagc	aagcgggcaa	agctgctcaa	aaaggaaatt	gcccttctcc	480
	gaaacaagct	gagccagcag	cacagccagc	ccctgccac	ggggccaggc	ttggaaggct	540
	tcgaagagga	cggagctgcg	ctggggcccg	gaggcgggcg	aagaagtcct	tccgaggttg	600
	gagactcttc	tcagaccaag	gaaaaggtcg	cggagcacat	gcggagactt	ncgangtgga	660
50	ggaggagtnc	ccangaaaag	cgcttgacg	caggtcttca	ccaacngctt	ttggggtgcn	720
	aagagccaac	cangaacccg	gccggggcc	ttgggggagg	aaggccacac	cccagcgacc	780
	ttgggccttc	gagttcaaga	ttttctttca	ag			812
	<210> 531						
55	<211> 781						
	<212> DNA						
	<213> Homo sapiens						
	<400> 531						
60	cttgacttta	tttttaatat	aaaaaatgca	aatttgaaa	cccacctac	tttcccaac	60
	ataatgcttt	acctcttaaa	aataaaaaata	aagtactaat	tctatatata	tcacaggtac	120
	catacaaaaa	tgtatccaaa	gtttctattg	ctaccaaagt	gttctaaatt	aaaacaagtt	180
	acagaaagcc	cctcattgta	aacaaaagat	tacaagttat	aaaatcaag	tacacacagg	240

	ccagagtcac	ttatacaatg	caatgcattc	tgtctcccaag	ccaagttgaa	tttttatgtg	300
	cctgtataaa	aatgcatatc	aatatacctt	tgcaaagtga	tttttcatta	taaagcaa	360
	gaatacactt	tctacaataa	ataatccgct	gggaggcaca	cctgcggggt	ttgaggtggg	420
	cgggacgacg	ggagcgggga	cacacccacc	ggcgggtcacg	ggcagcggag	tgtttttggg	480
5	gatctgcaag	tgatgtcaca	gcataaacttt	attctcccct	ctttccacaa	agtaccattc	540
	aaaataatgn	catttttctt	cttaaaatac	acattttgtca	ttgtaaaatt	acatcccgtc	600
	ttattaaata	agtgggtactc	tgngtaaaaga	gcattgattta	caaaaattatt	aaacattcaa	660
	aagtctttta	gaaaaagcta	catatcaaan	aaagtgcgc	cngcacaccg	gncttggggg	720
10	acgtgcgana	anacncactg	ggcttgcccg	gacgtgcccc	ccccctttac	agggccaaaa	780
	c						781
	<210> 532						
	<211> 708						
	<212> DNA						
15	<213> Homo sapiens						
	<400> 532						
	cggagacccg	gtcgggaggg	aggaaggtgg	caagatggtg	ttggaaagca	ctatggtgtg	60
	tgtggacaac	agtgaata	tgcggaatgg	agacttctta	cccaccaggc	tgaggccca	120
20	gcaggatgct	gtcaacatag	tttgtcattc	aaagaccgc	agcaaccctg	agaacaacgt	180
	gggccttacc	acactggcta	atgactgtga	agtgtgacc	acactcacc	cagacactgg	240
	ccgtatcctg	tccaagctac	atactgtcca	acccaagggc	aagatcacct	tctgcacggg	300
	catccgcgtg	gccccatctg	ctctgaagca	ccgacaaggc	aagaatcaca	agatgcgcac	360
	cattgccttt	gtgggaagcc	cagtggagga	caatgagaag	gatctggtga	aactggctaa	420
25	acgcctcaag	aaggagaaag	taaatgttga	cattatcaat	tttggggaag	aggaggtgaa	480
	cacagaaaag	ctgacagcct	ttgtaaacac	gttgaatggc	aaagatggaa	ccggttctta	540
	tctggtgaca	gtgccttctg	ggcccagttt	ggctgatgct	ctcatcagtt	cttcnatttt	600
	ggctggtgaa	ngnggtgccc	ttgctgggtc	ttgggtgcca	gtgacttttg	aattttggag	660
30	tanaatccca	ntgcttgatc	cttgagcttg	ggccttgccc	ccttctgt		708
	<210> 533						
	<211> 692						
	<212> DNA						
35	<213> Homo sapiens						
	<400> 533						
	gatttctgcc	cagggatttg	ctcaccccaa	ggcatctga	taatttcaca	gatgctgtgt	60
	aacagaaac	agccaaagta	aactgtgtag	gggagccaca	tttacaatag	aaccaaatca	120
	atgaatttag	gggttacgat	tatagcaatt	taaggggcca	ccagaagcag	gcctcgagga	180
40	gtcaatttgc	ctctgtgtgc	ctcagtggag	acaagtggga	aaacatgggc	ccacctgtgc	240
	gagacccctc	gtcctgtgct	gtcactcaa	caacatcttt	gtgttgcttt	caccaggctg	300
	agaccctacc	ctatggggta	tatgggcttt	tacctgtgca	ccagtgtgac	aggaaagatt	360
	catgtcacta	ctgtccgtgg	ctacaattca	aaggtatcca	atgtcgtgtg	aaattttatg	420
	gcactatttt	tattggagga	tttggtcaga	atgcagttgt	tgtacaactc	ataaatacta	480
45	actgctgatt	ttgacacatg	tgtgcttcaa	atgatctggt	ggttatttaa	cgtacctctt	540
	aaaattngtt	gaaacgattt	caggtcaact	ctgaagagta	ttttgaaagc	angactttan	600
	aacagtgttt	gattttttatt	ttataaattt	aagcatttca	aattaggcaa	atctttggct	660
	gcaggcagca	aaaaacaggc	ttggacttat	tt			692
50	<210> 534						
	<211> 546						
	<212> DNA						
	<213> Homo sapiens						
55	<400> 534						
	gttgtttgtt	ttgttcagat	ggagtctctc	tctgttcttg	ttgttgttga	gatggagtct	60
	ctctctgccc	aggatggagc	gcagtagtgc	aatctcagct	cactgcaacc	tccgcctccc	120
	gggttcaagc	aattcttctg	cctcanctc	caagtagctg	tggcaggaga	atggcgtgaa	180
	cctgggaggc	agagtttgca	gtgagccgag	attgcgccac	tgactccag	cctgagtgac	240
60	agagcgagat	tccgtgaaca	agtaattctt	cacactgnna	ttttatgtct	gtnnngcttaa	300
	ngaagaaatc	atgaattttt	cttctaaana	angtattctg	ttgacaccan	netattggaa	360
	anattttcaa	cntaaggnga	tgctangact	ggcctccnan	cnnnnaattg	ngaagnaaag	420
	ancatgnntt	ggncggntcc	tccaaanaan	aaattnncta	cccgnnngnc	cntanngaa	480

	tttccaenon cgccttctt cttttntnta cacaccnaaa tcnngntnnc naanangnna	540
	nacgga	546
	<210> 535	
5	<211> 784	
	<212> DNA	
	<213> Homo sapiens	
	<400> 535	
10	gccccaaagga agaggacatg gaggtggaca tacctgctgt gaaagtgaaa gaggagccac	60
	gagatgagga ggaagaggcc aagatgaagg ctctctccaa agcagccagg aagactccag	120
	gcctcccgaa ggatgtatct gtggcagagc tgctgaggga gctgagcctc accaaggaag	180
	aggaactgct gtttctgcag ctgccagaca cctccctgg ccagccaccc acccaggaca	240
	tcaagcctat caagacagag gtgcagggcg aggacggaca ggtggtgctc atcaagcagg	300
15	agaaagaccg agaagccaaa ttggcagaga atgcttgtag cctggctgac ctgacagagg	360
	gtcaggttgg caagctactc atccgcaagt ctggaagggt gcaactctc ttgggcaagg	420
	tgactctgga cgtgacctg ggaactgcct gctccttct gcaggagctg gtgtccgtgg	480
	gccttggaaga cagtaggaca ggggagatga cagtctggg acacgtgaag cacaaacttg	540
	tatgttcccc tgattttgaa tccctcttgg atcacaacaa ccggtaaaaat gaacaagtgg	600
20	aggaagacng cgctgtgcc ccaccgnttg ctgccttgc ncanacattt ttgttcttgg	660
	aatctgtgan aanccaaaaa ggggnccctc tgagccccac ttcactttca gnttttggg	720
	naaccantgg ttncangtnc cccaagggc tttccttccc caacaacntg tggaattggg	780
	acaa	784
25	<210> 536	
	<211> 735	
	<212> DNA	
	<213> Homo sapiens	
30	<400> 536	
	agagaaaaag gacatgaacg tttattgagt gcctgctggg tctggccttg tgcagttttc	60
	atctataaga gcccataaat cctcacgcca accctggagg taggtatcat cccattttgt	120
	gtcggatgag gtataggagg ctcanaaagg ttaggtagtt tgtccaagga cacagaacca	180
	ggaactggca agctgggacc gagtgtctaa gtctcagact caatccttgc tctctctcct	240
35	atactgcctc caggaggacg gggggagcac cagcagaagc tgcagtccac acgcttctctg	300
	cccctgcaac ccagcaggca ccaagagaag ccagccctt cacacagacc ctccccatct	360
	acccttgga gatgcataa gtggaagaga ttaagacata aatacaaaaa taaatagcag	420
	ggccaagtcc ccagcagcaa ggatgtgcca tctccacgct gcagggaagg cactgtgcca	480
	ttcacagctg ctgtgggagg aaaccttggg ggacctggaa caatgggtgc caaaggctgg	540
40	aatgagtggg ctcaaattgg gccccttctg gggtcncaaa attcaagaac aaaatgtntt	600
	ggacaaggca ncaacccggg gggccaaggc gcccnncttc cttcacctgn ttatttttac	660
	cggnggtttg ggatcccaan agggattnaa aaatcaaggg gaanatacaa ntttgtggct	720
	tacgttttcc caaga	735
45	<210> 537	
	<211> 601	
	<212> DNA	
	<213> Homo sapiens	
50	<400> 537	
	aagcaattaa acgttcaaat gaatatgagt aatgtaatgg gaaatacaac ttggacaact	60
	agtggtttga agagccaggg ccgtctgtca gtaggaagta atcgtgatcc gagagatcaa	120
	gcatgtctgt tggcttgga agatcacaat tagattctaa aggaggagta gttggaggga	180
	ccatagatgt caatgcttg gagatggntg ctcatatttc tgaacatcca aatcagcaac	240
55	ccantcacia aattcagatt actatgggtt ctactgaagc tcgtgttgat tacatgggct	300
	caagtatcct catgggcatc ttcagtaatg ctgatcttaa gcttcaggat gaatggaaag	360
	taaacttgta taatacattg gattcaagca taactgataa aagtgagatt ttcgtcctt	420
	ggagatttga angtgggata tttttccaan ntaatnatnt tnaaggnaaa ccacaccnga	480
	tctggtaaaa aataggaatg aagcnccang aattttttca cacaacaatt tgatccagca	540
60	aacnactct gtcttcttgg gggaccagtt ccttaacctt cccccaaga acaatgactt	600
	t	601

<211> 673
 <212> DNA
 <213> Homo sapiens

5 <400> 538
 aaaccattac tgtgacttta ttataatagt taacaatatt ttagtggtat acaatcatat 60
 cacaattact caagctatat acaaacaggt atttatataa gtctacattt aaaaaagaaa 120
 aagcaattaa tgacctcccc aaaatcacat tatcatcaac aagatttttt tctaaaagtt 180
 acggccaatc caataacaaa aaaattcaca gttattctgc agacatttta aagatgcagg 240
 10 aattgtattg cacattatat aattataaac cataacaagc agttatatat tttaatctag 300
 tttttcaca aatttacatt atcatgcaat acttcactgt acacagaatg atggaactag 360
 aacagggttaa cttacaaact ttttaattata gccacaaatt tagaattatt ttaaagttat 420
 atttcaaat attatactaa aaaaacactc cagtgtataa aaacagacac aatcataatt 480
 tgttcacaga tcaaattact tttttagngt tcttctttgn ctttgccttt cttttccttt 540
 15 tcatcctgna gtgcagtacc gagctttttg atnagaactg acagaacctt gtncagtggg 600
 tccatgactc ctctttggaa gccatttang aatagnaggc ctagcatgga tgaaagccca 660
 attttgaggg aat 673

20 <210> 539
 <211> 691
 <212> DNA
 <213> Homo sapiens

 <400> 539
 25 ggaggccgga actacaccag caaaagactg gacccttgtc gaaactcctc ctggggagga 60
 acaagccaag cagaatgcc aactccagct gtccatcttg ttcattgaaa aacctcaagg 120
 aggaacagtg aaagtgtgtg aagatatcac cttcatagcc aaagtcaagg ctgaagatct 180
 tctgagaaaa cccactatca aatggttcaa aggaaaaatg atggacctgg ccagcaaagc 240
 cggaagcac cttcagctga aggaacactt tgagaggcac agtcgggtgt acacatttga 300
 30 gatgcagatc atcaaggcca aagataactt tgcaggaaat tacagatgag aggtcaccta 360
 taaggataag tttgacagct gttcatttga tcttgaagtg cacgaatcta ctgggactac 420
 tccaaacatt gacatcagat ctgctttcaa gagaaggagg gtgaagcagc aggaggaaga 480
 accccagggtg gacgtatggg agttgctgaa gaacgcgaaa cccagtgaat acgaaaagat 540
 cgccttncag tatggaatca ccgatctgag ccgnatgctc aaacgactca agcgcagtc 600
 35 gcagaganga gaaaaaagac cgcacttttg ccaaaaaatt cttggatcct gcctatcagg 660
 ttgacnaaaa ggangaacaa tgaggggtgt t 691

40 <210> 540
 <211> 667
 <212> DNA
 <213> Homo sapiens

 <400> 540
 45 ctcttcaaca ttaggaggaa agaaaaagac cacacttggg ggcctggtgg gaaaaacagaa 60
 aatgcttttt ctcatattca ccagatttca aagcagcaga gtgcagagag acagtagcca 120
 ggccctccct cagtattcct caggattgct tgagtgtgaa tctcgcanat atgaatcaat 180
 tatgtttgga ggtacncctt gcaagaggag tctgcanaag gagagccac ctttcacctc 240
 cagtttgcat tcaatctcca ctgtcccaag gtcattgact gctttgcagc agtaagtgcc 300
 tccatcatag gggctgggct tgcgaatttc cagggtagag actccctggt tgctgaacat 360
 50 cctgtatctt ggatcatcca caatagcaac tttgtttttc atccagggtta ttttaggctt 420
 aggtattcct ctcacactgc agtttagggt ggcattgtta ccagctatgg catagggtgt 480
 aaccaaaaggc tgagtaaaca tgggtgcctc tgagaaatca aaagtcttca tcactgggat 540
 tttgtagatt taccatccct ggcgancact ggactttttt aatcatnggg gnattcctcc 600
 tgaggggnccc acatgttttt caaaaaaaaaa cccggaagga atttttttcc ctttgaccaa 660
 55 ttnaatt 667

60 <210> 541
 <211> 763
 <212> DNA
 <213> Homo sapiens

 <400> 541
 cctgcctcag cctcccaagt agctgggacc acaggcagtt atacttaagc atgaacattg 60

	acgacaaact	ggaaggattg	tttcttaaat	gtggcggcat	agacgaaatg	cagtcttcca	120
	ggacaatggt	tgtaatgggt	ggagtgtctg	gccagtctac	tgtgtctgga	gagctacagg	180
	attcagtagt	tcaagatcga	agtatgcctc	accaggagat	ccttgctgca	gatgaaagtgt	240
	tacaagaaaag	tgaaatgaga	caacaggata	tgatatcaca	tgatgaactc	atgggtccatg	300
5	aggagacagt	gaaaaatgat	gaagagcaga	tgaaacacac	tgaaagactt	cctcaaggac	360
	tacagtatgc	acttaatgtc	cctataagcg	taaagcagga	aattactttt	actgatgtat	420
	ctgagcaact	gatgagagac	aaaaaacaaa	tcagagagcc	agtagactta	cagaaaaaga	480
	agaagcggaa	acaacgttct	cccgcacaaa	tccttacaat	aaatgaggat	ggatcacttg	540
	gtttgaaaaac	ccctaaatct	caagtttgtg	agcactgcaa	tgctgccttt	agaacgaact	600
10	atccttacag	agacatgtct	tcttcataca	ggtgaaaaac	catttcaatg	tagtccatgn	660
	gacatgcgnt	tcataccana	antacctgct	ttagagacat	tgaaaagatt	cntactggtg	720
	naaaaccctt	ttcccttgng	aatgaatgtg	ggtttgagaa	ttc		763
	<210> 542						
15	<211> 778						
	<212> DNA						
	<213> Homo sapiens						
	<400> 542						
20	agtttttctg	attcagatga	tgatagctgt	ctttggaaac	gcaaacgaca	gaaatgtttt	60
	aaccctctct	ccaaaccaga	gccttttctg	tttggccaga	gcagtcagaa	accactgttt	120
	gctggaggaa	agaagattaa	caacatattg	ggtgctgtgc	tcaggaaca	gaatcaagat	180
	gcagtgcca	ctgaacttgg	tatcttgga	atggaggcca	ctattgacag	aagcagacaa	240
	tccgagacct	acaattattt	gcttgccaag	aaacttagga	aggaatctca	agagcataca	300
25	aaagatctag	acaaggaact	agatgaatat	atgcatggtg	gcaaaaaaat	gggatcaaag	360
	gaagaggaaa	atgggcaagg	tcctctcaaa	aggaaacgac	ctgtcaaaga	caggctaggg	420
	aacagaccag	aatgaacta	taaaggctga	taccagatca	cagcgaaga	ttctcaagag	480
	aaagtggctg	atgaaatttc	attcaggtta	caggaaacaa	agaaagacct	gatagccccg	540
	agtagtgagg	attattggta	caaaaaggca	attgaacttc	tgatggaaac	ccgttgaagt	600
30	tgacaaaatg	gnggctttta	tatgaatggn	agtcgaagaa	aaacccaagt	ggagtttnt	660
	gatctttgaa	acactctagt	tnagcgagga	caantaaggc	atttntcnt	tgaaaccaan	720
	ggatntaaaa	taaaaactgt	tgaaaaggga	cacagtgttn	gggaaaaata	aaaacttt	778
	<210> 543						
35	<211> 725						
	<212> DNA						
	<213> Homo sapiens						
	<400> 543						
40	gagacagagt	cttgctctgt	cgcccaggct	ggagtacagt	ggtacgatct	cagctcactg	60
	caacctttgc	ctcccgggtt	caggtgattc	tcctgcctca	gcctcccag	tagccgggat	120
	tataggcatg	gagaaccaca	cctggctagn	ttttgtatct	ttagtanaga	tgaagtttca	180
	ccatgttggc	ctggctggct	tcaaactctc	gacctcaagt	gatctgcccg	ccttggctct	240
	ccaaagtgtt	gggattacag	gcgtgagcca	ccgtgcctgg	ccaatgttag	tttttatcct	300
45	taaaattgcc	ttagttctta	gaacacagaa	aaaacaaatt	tgaatgcatt	tctaacagct	360
	taataattta	tatgtcccat	tatgatttta	gcggaatgtt	ttaaagcaaa	gcataattca	420
	ctgcaaagat	aaacctgaaa	aagcaaacaa	acttacaat	ggtatgttat	gacctagaca	480
	aaactgatta	tcaactagta	atactcataa	ttagcacatg	caacaagatt	gagaaattaa	540
	atcctgtgct	atatactctt	aaagtatttt	tgncaaaaata	tatcttttaa	atgttctatc	600
50	aattgcattt	ctttccacac	atatttttaa	accaagaaaa	acaanttggt	cttttccctc	660
	agaattctc	atggtttatt	caagtggcaa	aaacgttggc	aatctcaagt	taaaaaatgg	720
	ggtta						725
	<210> 544						
55	<211> 904						
	<212> DNA						
	<213> Homo sapiens						
	<400> 544						
60	tggagctcgc	gcgcctgcag	gtcgacacta	gtggatccaa	agctgccttc	gagcctgcca	60
	ttgatatgca	aaagtctgtt	ccaaataaag	ccttggaatt	gaagaatgaa	caaacattga	120
	gagcagatga	gatactccca	tcagaatcca	aacaaaagga	ctatgaagaa	agttcttggg	180
	attctgagag	tctctgtgag	actgtttcac	agaaggatgt	gtgtttaccc	aaggctgcgc	240

	atcaaaaaga	aatagataaa	ataaatggaa	aattagaagg	gtctcctgtt	aaagatggtc	300
	ttctgaaggc	taactgcgga	atgaaagttt	ctattccaac	taaagcctta	gaattgatgg	360
	acatgcaaac	tttcaaagca	gagcctcccg	agaagccatc	tgccttcgag	cctgccattg	420
	aaatgcaaaa	gtctgttcca	aataaaagcct	tggaattgaa	gaatgaacaa	acattgagag	480
5	cagatgagat	actcccatca	gaatccaaac	aaaaggacta	tgaagaaagt	tcttgggatt	540
	ctgagagtct	ctgtgagact	gtttcacaga	aggatgtgtg	tttacccaag	gctgcgcatt	600
	aaaaagaaat	agataaaaata	aatggaaaat	tagaaggggtc	tcctgttaaa	gatgggtctt	660
	tgaaggctaa	ctgcggaatg	aaagtcttcta	ttccaactaa	agccttagaa	ttgatggaca	720
	tgcaaaacttt	caaagcagag	cctcccgaga	agccatctgc	cttcgagcct	gccattgaaa	780
10	tgcaaaaagt	ctgttccaaa	taaagccttg	gaattggaag	aatgaacaaa	cattgagagc	840
	cgatgaaata	ctcccatcag	aatccaacca	aaggactatt	gaagaaagt	cttgggattt	900
	ttga						904
	<210> 545						
15	<211> 1088						
	<212> DNA						
	<213> Homo sapiens						
	<400> 545						
20	atccactaga	tccagcatta	accaaggcca	aatagactta	acttttcttc	cagaagttgc	60
	aagtattata	tttttgaaac	tacttctgtt	tctgctttct	cttttcatat	tgatatatac	120
	ggtttttttaa	atgggtattg	taattaaata	tctcctcatt	tttctctttt	aggagatgat	180
	gttgcatctt	cctctcaaga	aaatgaatat	caattgttat	cttgcttttg	ttgtcagctt	240
	tcttatgtgc	atgaactaat	tgctgttgaa	gccacatatt	tttgctttgt	agttgaaata	300
25	atttctgac	tanagactcc	tgctgttcag	tggtgttggt	cacattatct	tggtcgtttt	360
	gatacatgtg	ttcagcttcc	ttcatattgac	actgtgtttc	acgttggtct	ctttgtgcat	420
	gttctgaaac	caatgtattt	tctcttanag	catctccggc	ataattgana	ttaattttta	480
	ggctttttgga	tttcttttga	gcttcaaaaa	gtgggttgatg	gagcacctca	ttgttatata	540
	tcgtactact	cacatcaaca	ttcatttttc	tttgcaaaaca	agcatctcct	gcaatgtgga	600
30	aagcagggtc	ttgacttttt	cttgatgtca	caatttgatc	atgggtctgt	acagcagaag	660
	ccagtctagg	atgggtgtgat	tcaatttctg	cctctagtat	ttctttgtct	tgtttttctt	720
	tcaatttaga	agtgagcatt	gtgttctcag	ctatcagaac	tttaagctgc	ccactatatt	780
	gagatgccct	tttagttaat	gattcctctt	tcagttttag	ggtcattctga	agttcagcat	840
	tcttttcttt	taaaatctta	atgtcctcaa	agtatttatt	ttccttttcc	tggtattggg	900
35	gtttcagtg	ggctatttcc	agtttttagca	tggcaatttc	ctttttcaac	atgcaatttt	960
	catgtaagag	ataattttca	ttttcatgag	tgtgagaaac	ctgattcaaa	ttactttcta	1020
	cactcttcaa	ttctatatct	tgtattctga	gagcctgttc	aagttgttgt	ttcactttcta	1080
	actctttc						1088
40	<210> 546						
	<211> 814						
	<212> DNA						
	<213> Homo sapiens						
45	<400> 546						
	tgtaggcaga	gcctcccgag	aagccatctg	ccttcgagcc	tgccattgaa	atgcaaaagt	60
	ctgttccaaa	taaagccttg	gaattgaaga	atgaacaaac	attgagagca	gatgagatac	120
	tcccatcaga	atccaaacaa	aaggactatg	aagaaagttc	ttgggattct	gagagtctct	180
	gtgagactgt	ttcacagaag	gatgtgtgtt	tacccaaggc	tgcgcatcaa	aaagaaatag	240
50	ataaaataaa	tggaataata	gaagggtctc	ctgttaaaga	tggtcttctg	aaggctaact	300
	gcggaatgaa	agtttctatt	ccaactaaag	ccttagaatt	gatggacatg	caaactttca	360
	aagcagagcc	tcccagagaag	cccatctgct	tcgagcctgc	cattgaaatg	caaaagtctg	420
	ttccaaataa	agccttgga	ttgaagaatg	aacaaacatt	gagagcagat	gagatactcc	480
	catcagaatc	caaacaaaag	gactatgaag	aaagttcttg	ggattctgag	agtctctgtg	540
55	agactgtttc	canaaggatg	tgtgtttccc	aaggctgcgc	atcaaaaaga	aatagattaa	600
	ataatgggaa	attagaangg	cttctgttaa	gatgncttct	gaagcttact	gcggatgaaa	660
	gttctnttcc	acttaagcct	taaaatgtng	aatgcaactt	tcaagcagag	cctccganaa	720
	gcattgcttn	acctgcattg	aaagcaaaag	ctgtccataa	acctggattg	anaagacaac	780
60	ctggagcaat	gaatctcctc	naaccaccaa	gctt			814
	<210> 547						
	<211> 589						
	<212> DNA						

	<213> Homo sapiens	
	<400> 547	
5	gagacagagt ctcactctgt cgtcaggct ggagtgcagt agtgggatct cggtcacct	60
	gcctctaggg ttcaagccat tctectgcct cagcctccca agtagctggg attacagagg	120
	cgtgcaccac catgaccacc taattttttc ttgtttgttt tgtttttttg gggtttgttt	180
	ttttttgana tggagtctct ctctgtcacc caggctggag tgcagtagtg ggatctcagc	240
	tcacctgcct ccagggttca agccattctc ctgcctcagc ctcccaagta gctgggatta	300
	cagaggcggtg caccaccatg cccaccta at tttttcttgt tttgnttttc tggttctttt	360
10	tganacana g tcttgcctgt tcgcccagc tggagtgc an tggcgcgatc taagctcact	420
	gcaagctcca cctcccagat tcacgccatt ctgctatgag taaaatcacc tggttggatt	480
	gaatgatgct gctgcatcat canggtagaa tgggaatcct gtgcaagcct tatgcaattc	540
	gtgaacaaag taattcttca cactggtatt ttatgtctgt aaggcttca	589
15	<210> 548	
	<211> 776	
	<212> DNA	
	<213> Homo sapiens	
20	<400> 548	
	agatctccc atcagaatcc aaacaaaagg actatgaaga aagttcttgg gattctgaga	60
	gtctctgtga gactgtttca cagaaggatg tgtgtttacc caaggctgcg catcaaaaag	120
	aaatagataa aataaatgga aaattagaag ggtctctgt taaagatggt cttctgaagg	180
	ctaaactgcgg aatgaaagtt tctattccaa ctaaagcctt agaattgatg gacatgcaaa	240
25	ctttcaaagc agagcctccc gagaagccat ctgccttcga gcctgccatt gaaatgcaaa	300
	agtctgttcc aaataaagcc ttggaattga agaatgaaca aacattgaga gcagatgaga	360
	tactcccacg agaatccaaa caaaaggact atgaagaaag ttcttgggat tctgagagtc	420
	tctgtgagac tgtttcacag aaggatgtgt gtttacccaa ggctgcgcat caaaaagaaa	480
	tagataaaat aaatggaaaa ttagaaggggt ctctgttaa agatggtctt ctgaaggcta	540
30	actgcggaat gaaagtttct attccaacta aagccttaga attgatggac atgcaaaactt	600
	tcaaagcaga gcctcccgag aagccatctg ccttcgagcc tgccattgaa atgcaaaaag	660
	tctgttncaa ataaagcctt ggnattggaa gaatgaacaa acattgagag ccgatgaaat	720
	actnccatca gaatnccaac caaanggctn ttgaagaaag ttcttgggat ttttga	776
35	<210> 549	
	<211> 820	
	<212> DNA	
	<213> Homo sapiens	
40	<400> 549	
	gaatgaacaa acattgagag cagatgagat actcccatca gaatccaaac aaaaggacta	60
	tgaagaaagt tcttgggatt ctgagagtct ctgtgagact gtttcacaga aggatgtgtg	120
	tttacccaag gctacacatc aaaaagaaat agataaaaata aatggaaaat tagaagagtc	180
	tcttgataat gatggttttc tgaaggctcc ctgcagaatg aaagtttcta ttccaactaa	240
45	agccttagaa ttgatggaca tgcaaaacttt caaagcagag cctcccgaga agccatctgc	300
	cttcgagcct gccattgaaa tgcaaaagtc tgttccaaat aaagccttgg aattgaagaa	360
	tgaacaaaca ttgagagcag atcagatgtt ccttcagaa tcaaaacaaa agaaggttga	420
	agaaaattct tgggattctg agagtctccg tgagactgtt tcacagaagg atgtgtgtgt	480
	cccaaggcta cacatcaaaa agaaatggat aaaataagt gaaaattaga gagactctta	540
50	gcttcatcct gtaccaagag agtctgatag gtccctcat tttttctttc tgtgtcacgt	600
	tttggaatct tgtcaagcan gaagctgaac attcttaaaa tcaactaccta tcaaaatctt	660
	gatcngtcan tcttgggaag accangggac ttcaaaagat actgggaccc ctncgggaaa	720
	tgggcnatg aaaaaaagtt ttgntcttga aaaaactntc gaancaana attaatcccc	780
	gtttggnacc aaaagttaat ngggccaaac ccttccgggg	820
55	<210> 550	
	<211> 713	
	<212> DNA	
	<213> Homo sapiens	
60	<400> 550	
	aaatagaagg tgagaaaatt atacatggga gaaaaaatgt atccacaatt tttaggaaat	60
	tagcaaggct ctgcataaa caatagtttt taaacgatgt cccatagaaa tctaaggtag	120

	tacagaggac	atagcagtat	taagggataa	tgaagtcaca	gcttcagagc	ctccatcett	180
	tcttttagcaa	gttagctcta	cttgtatctg	ttctgtttta	tataatatgg	ttgcatctaa	240
	ctgttttttaa	aaaaagttct	gttctttcaaa	aaaatttttaa	gctatgaaaa	tcactgatta	300
5	agtcaaaacc	tcatttttaca	aaagaggcaa	cacaaactca	gagcacttat	gcctcaccat	360
	aggtcacaaa	gccaagtagc	tccaggccag	aaatgggctt	taggtcttcc	gtctganact	420
	ggcatttgat	gccagtgatt	tctcccatat	ttaggagaaa	tgtatagatt	ttaaaatata	480
	actcanagaa	aatgcatgca	tatggtaaaa	ctgtcttcta	gctcaatcat	gtttaggggc	540
	aacagggtaa	aaaatagntc	tccagctaaa	ttngngaattc	taaaattaga	aatacaaaagt	600
	aggccataga	aactaatatc	ntaacatcag	gggagangga	ggcaattaat	ctatttgtaa	660
10	agaacaagtt	tggttaaaaac	tccanaaaaa	aggacctcgg	aagggagaaa	aat	713

<210> 551

<211> 708

<212> DNA

15 <213> Homo sapiens

<400> 551

	caaaaaggact	atgaagaaag	ttcttgggat	tctgagagtc	tctgtgagac	tgtttcacag	60
	aaggatgtgt	gtttacccaa	ggctgcgcac	caaaaagaaa	tagataaaat	aaatggaaaa	120
20	ttagaagggg	ctcctgttaa	agatggctct	ctgaaggcta	actgcggaat	gaaagtttct	180
	attccaacta	aagccttaga	attgatggac	atgcaaactt	tcaaagcaga	gcctcccgag	240
	aagccatctg	ccttcgagcc	tgccattgaa	atgcaaaagt	ctgttccaaa	taaagccttg	300
	gaattgaaga	atgaacaaac	attgagagca	gatgagatac	tcccatcaga	atccaaacaa	360
	aaggactatg	aagaaagttc	ttgggattct	gagagtctct	gtgagactgt	ttcacagaag	420
25	gatgtgtgtt	tacccaaggc	tgccgatcaa	aaagaaatag	ataaaataaa	tggaaaatta	480
	gaaggggtctc	ctgttaaaga	tggcttctga	aggctaactg	cggaaatgaa	gttctattca	540
	actaaagcct	tagaattgat	ggacatgcca	actttcaagc	agacctccga	gaagcctctg	600
	cttcnacctg	cattgaatgc	caaaatctgt	tccaataaag	ccttggaatt	gaagaatgaa	660
30	ccaacatttg	agagcngatg	agatctccct	cagaatccac	caaaggct		708

<210> 552

<211> 716

<212> DNA

35 <213> Homo sapiens

<400> 552

	catattgata	tatacggttt	tttaaattgg	tattgtaatt	aaatatctcc	tcattttttct	60
	cttttaggag	atgatgttgc	attttctctc	caagaaaatg	aatatcaatt	gttatcttgc	120
	ttttgttgtc	agctttctta	tgtgcataaa	ctaattgctg	ttgaagccac	atatttttgc	180
40	ttttagttag	aaataatttc	tgatctanan	actcctgctg	ttcagtgtgt	ttgttcacat	240
	tatcttgttc	gttttgatac	atgtgttcag	cttccttcat	ttgacactgt	gtttcacggt	300
	ggtctctttg	tgcatgttct	gaaaccaatg	tattttctct	tanagcatct	ccggcataat	360
	tgagattaat	tttttaggctt	ttggatttcc	tttgagcttc	anaaagtggg	tgatggagca	420
	cctcattgtt	atatatcgta	ctactcacat	caacattcat	ttttctttgc	aaacaagcat	480
45	ctcctgcaat	gtggaaaagca	ggttcttgac	ttttctttga	gtgcacaatt	tgatcatggg	540
	cttgtccagc	agaagccagt	ctaggatggn	ggtgattcaa	tttctgcctc	taatatctct	600
	ttggcttggt	tttcttctca	tttaaaaagt	gagcattgng	gttctcaact	ntcanaaactt	660
	taagctgncc	acttttttga	gaagccccctt	ttagtaaaga	atcctctttc	agttta	716

50 <210> 553

<211> 713

<212> DNA

<213> Homo sapiens

55 <400> 553

	aatgaacaaa	cattgagagc	agatgagata	ctcccatcag	aatccaaaca	aaaggactat	60
	gaagaaagtt	cttgggattc	tgagagtctc	tgtgagactg	tttcacagaa	ggatgtgtgt	120
	ttacccaagg	ctgcgcacat	aaaagaaaata	gataaaaata	atggaaaatt	agaagggctc	180
	cctgttaaag	atggtcttct	gaaggctaac	tgccggaatga	aagtttctat	tccaactaaa	240
60	gccttagaat	tgatggacat	gcaaaacttc	aaagcagagc	ctcccgagaa	gccatctgcc	300
	ttcgagcctg	ccattgaaat	gcaaaaagtct	gttccaaata	aagccttgga	attgaagaat	360
	gaacaaacat	tgagagcaga	tgagatactc	ccatcagaat	ccaaacaaaa	ggactatgaa	420
	gaaagtctct	gggattctga	gagtctctgt	gagactgttt	cacanaagga	tgtgtgtttc	480

	ccaaggctgc	gcataaaaa	gaaatagata	aaataaatgg	aaaattaaag	ggctcctgtt	540
	aagatggcct	ctgaaggcta	actgcggaat	gaagtttcta	tttcaactaa	gccttagaat	600
	tgtggacatg	ccaactttca	agcaaacctc	cganaagcct	ntgcttctan	cctgcnttga	660
	aagcaaagct	gttccaataa	gcctggaatg	agaatgacca	accttgagac	aat	713
5							
	<210> 554						
	<211> 750						
	<212> DNA						
	<213> Homo sapiens						
10							
	<400> 554						
	catattgata	tatacgggtt	tttaaagtgt	tattgtaatt	aaatatctcc	tcatttttct	60
	cttttaggan	atgatgttgc	attttcctct	caagaaaatg	aatatcaatt	gttatcttgc	120
	ttttgttgtc	agctttctta	tgtgcatgaa	ctaattgctg	ttgaagccac	atatttttgc	180
15	tttgtagtgt	aaataatttc	tgatctanag	actcctgctg	ttcagtggtg	ttgttcacat	240
	tatcttggtc	gttttgatac	atgngttcag	cttccttcat	ttgacactgn	gtttcacgtt	300
	ggctctcttg	tgcatgttct	gaaaccaatg	tattttctct	tanagcatct	ccggcataat	360
	tgagattaat	ttttaggctt	ttggatttcc	tttgagcttn	anaaagtggg	tgatggagca	420
	cctcattggt	atatatcgta	ctactcacat	caacattcat	ttttctttgc	aaacaagcat	480
20	ctcctgcant	gtggaaagca	ggttcttgac	ttttcttga	tgccaattt	gatcatggnc	540
	ttgtacagca	aaaaccagtc	taggatggng	ngaatacaatt	tctggcnccta	gnatttcttt	600
	ggcttggttt	cccttcaatt	ttaaaaagt	aaccattgng	nttctcaact	ttcanaactt	660
	ttaagctgcc	cncctntttt	ggagaagccc	cttttaagtt	aaatgaatcc	ctctttcaag	720
	tttttaagg	gcacttgga	attcaaacat				750
25							
	<210> 555						
	<211> 700						
	<212> DNA						
	<213> Homo sapiens						
30							
	<400> 555						
	aagaaatact	agaggcagaa	attgaatcac	accatcctag	actggcttct	gctgtacaag	60
	accatgatca	aattgtgaca	tcaagaaaaa	gtcaagaacc	tgctttccac	attgcaggag	120
	atgcttggtt	gcaaagaaaa	atgaatgttg	atgtgagtag	tacgatata	aacaatgagg	180
35	tgctccatca	accactttct	gaagctcaaa	ggaaatccaa	aagcctaaaa	attaatctca	240
	attatgccgg	agatgtctta	agagaaaaata	cattgggttc	agaacatgca	caaagagacc	300
	aacgtgaaac	acagtgtcaa	atgaagggaag	ctgaacacat	gtatcaaaac	gaacaagata	360
	atgtgaacaa	acacactgaa	cagcaggagt	ctctagatca	gaaattatct	caactacaaa	420
	gcaaaaaatat	gtggcttcaa	cagcaattag	ttcatgcaca	taagaaagct	gacaacaaaa	480
40	gcaagataca	attgatattc	attttcttga	gaggaaaatg	caacatctct	cctaaaagag	540
	aaaaatgagg	agattttaat	tacaataacc	atttaaaaaa	ccgttntatc	atatgaaaag	600
	agaaagcnga	aacngaagta	gtttcaaaaa	tntaataact	gcaacttctg	gaagaaaagt	660
	taagnctatt	tggccttggg	taatgctgga	tctagtggat			700
45							
	<210> 556						
	<211> 665						
	<212> DNA						
	<213> Homo sapiens						
50							
	<400> 556						
	ctattaacca	tttttcttta	nataaagtgt	atgtgttttc	tatgtttctc	attctcaata	60
	ttctcaactt	ataatgggtt	tatcaagacg	taatgccact	gtaaactgag	gagaccaggt	120
	accgtgggtt	gaaaatccct	attctaaaaa	ctgaagcttc	aaaatttgaa	acttttaaaa	180
	tgacagacata	atttttctca	atagtcanaa	caaatatgag	tattgactan	aacaattgtc	240
55	ctctattana	gtgggttctg	ttttatattt	attgattaag	atatatttca	aataaaactt	300
	tattatgtca	atgtctgaaa	aaataaatta	tcagtataat	atatttaatt	gtaacaactg	360
	gtaagataga	atattttcaa	ttacacaaat	aacaggtagc	atgtatgtca	gatattatcc	420
	cctgcttagg	caaatttata	ataagacatg	attatgtctc	atgaaaaaat	aaagcaatgt	480
	caattgaaag	ttaaattgtt	ctgcaccaac	tagaaaacac	atcctgaagc	ataagggcaa	540
60	tgagagtcag	aacagtcaga	gaaagcttta	tgaaaaatgga	aaatgtgtnc	accaagtctg	600
	aatgaatgan	ggatagatga	acaaaaactg	aaaatggang	aacagcctga	ggaangcaaa	660
	aaqat						665

<210> 557
 <211> 770
 <212> DNA
 <213> Homo sapiens

5

<400> 557

gttttttttt	tttttttttt	ttttgatacg	gagtctcgct	ctgtcgccca	ggctggattg	60
aatgatgtct	gctgcatcat	cagggtagat	gggaatcctg	tgcagcttta	tgcaattcgt	120
gaacaagtaa	ttcttcacac	tggtatttta	tgtctgtagg	cttcaggaan	aaatcatgaa	180
10	tttttcttct	aaaataagta	ttctgttgac	acanaactatt	ggtaagattt	240
	gngatgctag	gactggcctc	ctagcatgag	ttgtgagtaa	agatctgggc	300
	ccaaaanaag	tttcttactg	cttgtctctc	atgagttttc	tgtttctgct	360
	catattgata	tatacggttt	tttaaattgg	tattgtaatt	aaatatctcc	420
	cttttaggag	atgatgttgc	attttctctc	caagaaaatg	aatatcaatt	480
15	ttttgttgnc	agctttctta	tgtgcatgaa	ctaattgctg	ttgaagccac	540
	ttttagttag	aaataatttc	tgatctanag	actcctgctg	ttcaatgtgt	600
	tatctgtgtc	gtttgaaac	atgtgttcan	cttcttcat	ttgacactgg	660
	ggctctttgt	gcatgttctg	aaacccatgt	nttttctctt	aaaaccatct	720
20	tgaaaataat	ttttaggctt	tttgggattt	ncttttgagc	ttcaaaaaag	770

<210> 558
 <211> 735
 <212> DNA
 <213> Homo sapiens

25

<400> 558

gaaagagtta	gaagtgaac	aacaacttga	acaggctctc	agaatacaag	atatagaatt	60
gaagagtgtg	gaaagtaatt	tgaatcagg	ttctcacact	catgaaaatg	aaaattatct	120
cttacatgaa	aattgcatgt	tgaaaaagga	aattgccatg	ctaaaactgg	aaatagccac	180
30	actgaaacac	caataccagg	aaaaggaaaa	taaatacttt	gaggacatta	240
	agaaaagaat	gctgaacttc	agatgaccct	aaaactgaaa	gaggaatcat	300
	ggcatctcaa	tatagtgggc	agcttaaagt	tctgatagct	gagaacacaa	360
	taaattgaag	gaaaaacaag	acaaagaaat	actagaggca	gaaattgaat	420
	tagactggct	tctgctgtac	aagaccatga	tcaaattgtg	acatcaagaa	480
35	acctgctttc	cacattgcag	gagatgcttg	tttgcaaaga	aaaatgaatg	540
	tagtaccgat	atataacaat	gaggngctcc	atcaaccact	ttctgaagct	600
	ncaaaagcct	aaaaattaat	ctcaattatg	cccagatg	tctaagaaaa	660
	ttcagaaca	tgcccaagag	gaccacgtgg	aacaaagtgt	caaatggaag	720
40	cccatgtttc	aaacc			gaagctggaa	735

<210> 559
 <211> 664
 <212> DNA
 <213> Homo sapiens

45

<400> 559

ctgccttcga	gcctgccatt	gatatgcaaa	agtctgttcc	aaataaagcc	ttggaattga	60
agaatgaaca	aacattgaga	gcagatgaga	tactcccatc	agaatccaaa	caaaaggact	120
atgaagaaag	ttcttgggat	tctgagagtc	tctgtgagac	tgtttcacag	aaggatgtgt	180
50	gtttacccaa	ggctgcgcat	caaaaagaaa	tagataaaat	aaatggaaaa	240
	ctcctgttaa	agatggtctt	ctgaaggcta	actgoggaa	gaaagtctct	300
	aagccttaga	attgatggac	atgcaaaact	tcaaagcaga	gcctcccgag	360
	ccttcgagcc	tgccattgaa	atgcaaaaagt	ctgttccaaa	taaagccttg	420
	atgaacaaac	attgagagca	gatgagatac	tcccatcaga	atccaaacaa	480
55	aagaaagtgc	ttgggattct	gagagtctct	gtgagactgt	ttccagaagg	540
	acccaangct	tgcgcntcaa	aaagaaatag	ataaaaataa	tggaataa	600
	atgctgtctg	atttaaaaca	ttctttgcaa	tgataagggc	ttctgttaaa	660
60	tgaa				gaagggcttc	664

<210> 560
 <211> 636
 <212> DNA
 <213> Homo sapiens

	<400> 560	
	gtctctgtga gactgtttca cagaaggatg tgtgtttacc caaggctgcg catcaaaaag 60	
	aaatagataa aataaatgga aaattagaag ggtctcctgt taaagatggg cttctgaagg 120	
5	ctaactgcgg aatgaaagt tctattccaa cttaagcctt agaattgatg gacatgcaaa 180	
	ctttcaaagc agagcctccc gagaagccat ctgccttcga gcctgccatt gaaatgcaaa 240	
	agtctgttcc aaataaagcc ttggaattga agaatgaaca aacattgaga gcagatgaga 300	
	tactcccatc agaatccaaa caaaaggact atgaagaaaag ttcttgggat tctgagagtc 360	
	tctgtgagac tgtttcacag aaggatgtgt gtttacccaa ggctgcccac caaaaagaaa 420	
10	tagatnaaat anatggaaaa ttagaagggt ctctgttaa agatgggtctt ctgaaggcta 480	
	actgcggaat gaaagtttct atttcaacta aagccttaag aattgatgga catgcaaaact 540	
	ttcaaagcag agcctnccga gaagccatct gccttcgagc ctgccattga aatgcacang 600	
	tctgttccca aataaagccc ttggaattga agaattg 636	
15	<210> 561	
	<211> 751	
	<212> DNA	
	<213> Homo sapiens	
20	<400> 561	
	aatttgaatc aggtttctca cactcatgaa aatgaaaatt atctcttaca tgaaaattgc 60	
	atgttgaataa aggaattgc catgctaaaa ctggaaatag ccacactgaa acaccaatac 120	
	caggaaaaag aaaataaata ctttgaggac attaaagatt taaaagaaaa gaatgctgaa 180	
	cttcagatga ccctaaaact gaaagaggaa tcattaacta aaagggatc tcaatatagt 240	
25	gggcagctta aagttctgat agctgagaac acaatgctca cttctaaatt gaaggaaaaa 300	
	caagacaaaag aaataactaga ggcagaaatt gaatcacacc atcctagact ggcttctgct 360	
	gtacaagacc atgatcaaat tgtgacatca agaaaaagtc aagaacctgc tttccacatt 420	
	gcaggagatg cttgtttgca aagaaaaatg aatgttgatg tgagtagtac gatataaac 480	
	aatgaggtgc tccatcaacc actttctgaa gctcaaagga aatccaaaag cctaaaaatt 540	
30	aatctcaatt atgccggaga tgcctcaaga gaaaatcatt ggtttcagaa catgcncaaa 600	
	gagaccaacg tgaaacacag tgtcaaatga aggaagctga cacatgtntc aaaacgaaca 660	
	agaataatgn ggaccaaacc aactgaacc agcaggangt cttttagatc cagaaatttn 720	
	tttcaaactt ccaaagccaa aaaatttgtg g 751	
35	<210> 562	
	<211> 671	
	<212> DNA	
	<213> Homo sapiens	
40	<400> 562	
	ctaaaatgca aatctgatca tacaattttg cagctaaaaa ttctgcagtg gttcctcaag 60	
	gttttatgat aaagtcaaa ctccttggcg tgggtgtacag ggtacttagg atctggacct 120	
	ttttgttgc tcactgttcc acagggtgt tctttggttt ggaacacttc tcccaggtgt 180	
	taggactcct tccccagttt ctctctctct cccctttctg cccactccc tggcttggat 240	
45	taagtctccc actgacgcca cctgtagggt atttatcaca gtccctatca cataggatta 300	
	tctgtttctt tacttgtctg tttctacctt taaacctaga agtttttgaa ggacgagtca 360	
	ggggttttagt aatcttttag tttagttaa gatgactaat attggttaat tgcttgnat 420	
	gtattagcaa caatgcaaat tcttggatgt gtaagtgatt catgggacat tgccctgacc 480	
	tcattcttag atgagngta gatgcagaga cccatgtctc tcgatttggg gggaggcaaa 540	
50	tgatggcctt cttagccaag tccaatccan tctgcctat ttttggatgg gctgngaact 600	
	aaanaaatgg ggttggcntt tttaaattgg ntagaaaaaa atccgaagaa taatattttg 660	
	gggacatggt g 671	
	<210> 563	
55	<211> 722	
	<212> DNA	
	<213> Homo sapiens	
60	<400> 563	
	catattgata tatacgggtt tttaaatggg tattgttaatt aaatatctcc tcatttttct 60	
	cttttaggag atgatgttg attttctct caagaaaatg aatatcaatt gttatcttgc 120	
	ttttgttgc agctttctta tgtgcatgaa ctaattgctg ttgaagccac atatttttgc 180	
	tttgtagttg aaataatttc tgatctanag actcctgctg ttcagtgtgt ttgttcacat 240	

tatcttggtc gttttgatac atgtgttcag ctcccttcat ttgacactgt gtttcacggt 300
 ggtctctttg tgcattgttct gaaaccaatg ttttttctct tanagcatct ccggcataat 360
 tganattaat ttttaggctt ttggatttcc tttgagcttc aaaaagtggt tgatggagca 420
 cctcattggt atatacgtat ctactcacat caacattcat ttttctttgc aaacaagcat 480
 5 ctcttgcaat gtggaaagca ggttcttgac tttttcttga tgtcacaatt tgatcatggt 540
 ctgttcagca naagccagtc tagggatggt gtgattcaat ttctgcctct agtatttctt 600
 tggcttggtt ttccttcaat ttaaaaagtg aacattgggg ttctcaagct ttcaaaactt 660
 taagctgncc ccttttnttg aaaagccnt ttaagttaaa ggattccctc tttcaagttt 720
 ta 722

10

<210> 564
 <211> 1158
 <212> DNA
 <213> Homo sapiens

15

<400> 564
 atgattacac cctatgggtta tggaaaaaaa cgaatattca tatttagtat tatgacctaa 60
 gtgtatatcc aagctgatca attcataaca ctccagtgat gagatgtcag ttgtncnttc 120
 ggctgaactc tcatcataac tatgtacctt tccaaagata ggctatatta aagaacagga 180
 20 tgaatggaat aatataagtg attctaattgt gtttcattaa agcctcccgga gaagccatct 240
 gccttcgagc ctgccattga aatgcaaaaag tctgttccaa ataaagcctt ggaattgaag 300
 aatgaacaaa cattgagagc agatgagata ctcccatcag aatccaaaca aaaggactat 360
 gaagaaagtt cttgggattc tgagagtctc tgtgagactg tttcacagaa ggatgtgtgt 420
 ttacccaagg ctgcgcatca aaaagaaata gataaaataa atggaaaatt agaaggtaga 480
 25 tatgtctgtg aatttagaac attctctgca atgataagggt ctctgtttaa agatgggtctt 540
 ctgaaggcta actgcggaat gaaagtttct attccaacta aagccttaga attgatggac 600
 atgcaaaactt tcaaagcaga acctcccgag aagccatctg ccttcgagcc tgccattgaa 660
 atgcaaaaagt ctgttccaaa taaagccttg gaattgaaga atgaacaaac attgagagca 720
 gatgagatac tcccatcaga atccaaacaa aaggactatg aagaaagttc ttgggattct 780
 30 gagagtctct gtgagactgt ttcacagaag gatgtgtgtt taccgaaggc tgccgatcaa 840
 aaagaaatag ataaaataaa tggaaaatta gaagccatta gggatggaag cacctgacca 900
 tgggagagctg tgttctattt gcaataggggt ctctgtttaa aagatgggtct tctgaaggct 960
 aactgcggaa tgaaagttt tattccaact aaagccttaa aattgatgga catgcaaaact 1020
 ttcaaagcag aacctcccgga gaagccatct gccttcgagc cctgccattg aaatgccaaa 1080
 35 agtctgggtc caaataaagc ccttggaatt gaagaatgga acaaaccctt gggagccgga 1140
 tggagatact tcccttcc 1158

40

<210> 565
 <211> 766
 <212> DNA
 <213> Homo sapiens

<400> 565
 atgattacac cctatgggtta tggaaaaaaa cgaatattca tatttagtat tatgacctaa 60
 45 gtgtatatcc aagctgatca attcataaca ctccagtgat gagatgtcag ttgtncnttc 120
 ggctgaactc tcatcataac tatgtacctt tccaaagata ggctatatta aagaacagga 180
 tgaatggaat aatataagtg attctaattgt gtttcattaa agcctcccgga gaagccatct 240
 gccttcgagc ctgccattga aatgcaaaaag tctgttccaa ataaagcctt ggaattgaag 300
 aatgaacaaa cattgagagc agatgagata ctcccatcag aatccaaaca aaaggactat 360
 50 gaagaaagtt cttgggattc tgagagtctc tgtgagactg tttcacagaa ggatgtgtgt 420
 ttacccaagg ctgcgcatca aaaagaaata gataaaataa atggaaaatt agaaggtaga 480
 tatgtctgtg aatttagaac attctctgca atgataagggt ctctgtttaa agatgggtctt 540
 ctgaaggcta actgcggaat gaaagtttct attccaacta aagccttaga attgatggac 600
 atgcaaaactt tcaaagcaga acctcccgag aagccatctg ccttcgagcc tgnattgga 660
 55 aagccaaaag tctgttncca aataaaagcc tttggaattg gaagaatgga ccaaccnttg 720
 ggagcccgat gagaatactn ccttcagaa tnccaaacaa aagggc 766

60

<210> 566
 <211> 833
 <212> DNA
 <213> Homo sapiens

<400> 566

	gatactccca	tcagaatcca	aacaaaagga	ctatgaagaa	agttcttggg	attctgagag	60
	tctctgtgag	actgtttcac	agaaggatgt	gtgtttaccc	aaggctgcgc	atcaaaaaga	120
	aataagataaa	ataaatggaa	aattagaagg	tagatatgct	gctgaattta	gaacattctc	180
	tgcaatgata	aggtctcctg	ttaaagatgg	tctctgaag	gctaaactgcg	gaatgaaagt	240
5	ttctattcca	actaaagcct	tagaattgat	ggacatgcaa	actttcaaag	cagagcctcc	300
	cgagaagcca	tctgccttcg	agcctgccat	tgaaatgcaa	aagtctgttc	caaataaagc	360
	cttggaattg	aagaatgaac	aaacattgag	agcagatgag	atactcccat	cagaatccaa	420
	acaaaaggac	tatgaagaaa	gttcttgga	ttctgagagt	ctctgtgaga	ctgtttcaca	480
	gaaggatgtg	tgtttaccga	aggctgcgca	tcaaaaagaa	atagataaaa	taaattgaaa	540
10	attagaagcc	attagggatg	gaagcacctg	accatggaga	gctgtgttct	atttgcaata	600
	gggtctcctg	ttaaagatg	gtctctgaa	ngctaactgc	ggaatgaaag	tttctattcc	660
	aactaaagcc	ttanaattga	tggacatgca	aactttcaaa	gcagaacctn	ccgagaagcc	720
	atntgncttc	gagccctgnc	attgaaatgc	caaaagtctg	gttccaaata	aagnccttgg	780
	naattgaaga	atggaacaaa	cctttggggag	ccggatggag	atacttccct	tcc	833
15	<210> 567						
	<211> 758						
	<212> DNA						
	<213> Homo sapiens						
20	<400> 567						
	catattgata	tatacggttt	tttaaatggt	tattgtaatt	aaatatctcc	tcatttttct	60
	cttttaggag	atgatgttgc	attttctct	caagaaaatg	aatatcaatt	gttatcttgc	120
	ttttgttgc	agctttctta	tgtgcatgaa	ctaattgctg	ttgaagccac	atatttttgc	180
25	ttttagttg	aaataatttc	tgatctagag	actcctgctg	ttcagtgtgt	ttgttcacat	240
	tatcttgttc	gttttgatac	atgtgttcag	cttccttcat	ttgacactgn	gtttcacggt	300
	gggtctcttg	tgcatgttct	gaaaccaatg	tattttctct	tagagcatct	ccggcataat	360
	tganattaat	ttttaggctt	ttggatttcc	tttgagcttc	agaaagtggg	tgatggagca	420
	cctcattgtt	atatatcgta	ctactcacat	caacattcat	ttttctttgc	aaacaagcat	480
30	ctoctgcaat	gtggaaagca	ggttcttgac	ttttcttga	tgtcacaatt	tgatcatggn	540
	cttgtcagca	gaagccagtc	taggatgggg	ngattcaatt	tctgccccta	gnatttcttt	600
	ggcttgggtt	tccttcaatt	tanaagttag	cattgngttc	tcagctntta	naactttaag	660
	ctggccncta	tattggagan	gcccccttaa	gttaaangat	tcccccttca	gntttanggg	720
	ccatctgaag	gtcaaccttc	tttttctttt	aaaaacct			758
35	<210> 568						
	<211> 771						
	<212> DNA						
	<213> Homo sapiens						
40	<400> 568						
	ggcatgactt	ggtcatctta	ttaaatacaa	cttctttcct	aatacggccg	ctttctctta	60
	ctgatagttag	gatatttctg	ctttagtatt	tgtcacctta	aatatatttt	caatgttgaa	120
	atcctcacag	catgtttgat	gaaatctagt	tttcaaattt	tcttagggtc	tctgtttaa	180
45	gatggctctc	tgaaggctaa	ctgcggaatg	aaagtttcta	ttccaaactaa	agccttagaa	240
	ttgatggaca	tgcaaaacttt	caaagcagag	cctcccagaga	agccatctgc	cttcgagcct	300
	gccattgaaa	tgcaaaaagtc	tgttccaaat	aaagccttgg	aattgaagaa	tgaacaaaca	360
	ttgagagcag	atgagatact	cccatcagaa	tccaaacaaa	aggactatga	agaaagtctt	420
	tgggattctg	agagtctctg	tgagactgtt	tcacagaagg	atgtgtgttt	acccaaggct	480
50	gcgcattcaaa	aagaaataga	taaaataaat	ggaaaattag	aaggtagata	tgctgctgaa	540
	tttagaacat	tctctgcaat	gataaggnc	cctgttaaaa	gatggctctc	tgaaggctaa	600
	ctgcggaaat	gaaagtctct	attccaacta	aagccttaaa	aatggatgga	catgccaaact	660
	ttcaaagcag	aagcctcccg	agaagccctt	ntggccttng	agcctggcct	tggaaatgca	720
	aaaagtctgg	ttccaaataa	agnccttggg	aattggaaga	aatgaaccaa	c	771
55	<210> 569						
	<211> 756						
	<212> DNA						
	<213> Homo sapiens						
60	<400> 569						
	ccttcaattt	anaagtgagc	attgngttct	cagctatcan	aactttaagc	tgcccactat	60
	attgagatgc	ccttttagtt	aatgatctct	ctttcagttt	tagggtcac	tgaagttcag	120

	cattcttttc	ttttaaaatc	ttaatgtcct	caaagtattt	attttccctt	tcttgggtatt	180
	ggngtttcag	ngnggctatt	tccagtttta	gcatggcaat	ttcctttttc	aacatgcaat	240
	tttcatgtaa	ganataattt	tcatttttcat	gagtgngaga	aacctcacac	tgcanagctc	300
	ttgttcccat	tttaactttt	ggttctctaa	ctgggatttt	atttcttttg	cttctgacag	360
5	tttctttttc	agtacacaaa	acttcttttt	catttggtcc	atttttcctg	ncgttggtca	420
	cagngatctt	tttgaagttc	ccttgctctt	tcacaagaat	gaacngtatc	caaaattttt	480
	gataggctan	ttgaatcttc	tnattttcca	cttattttat	ccattttctt	ttgatgngaa	540
	ccttggggnc	acccnccatc	cttcttgnga	acaagtctnc	accgaggacc	tttcannaaa	600
	ccccaaaaat	tttcttcaac	ccttcttttg	ttttgattct	tgaangggaa	nancnggaac	660
10	cgnctcnnaa	tggtngggnc	anttncttaa	antccaangn	cttttatttg	ggaaacanac	720
	ctttgcattt	naattggcng	ggcnccaaag	gcaaaa			756
	<210> 570						
	<211> 741						
15	<212> DNA						
	<213> Homo sapiens						
	<400> 570						
	gaagccatct	gccttcgagc	ctgccattga	aatgcaaaag	tctgttccaa	ataaagcctt	60
20	ggaattgaag	aatgaacaaa	cattgagagc	agatgagata	ctcccatcag	aatccaaaca	120
	aaaggactat	gaagaaagtt	cttgggattc	tgagagtctc	tgtgagactg	tttcacagaa	180
	ggatgtgtgt	ttacccaagg	ctgcgcatca	aaaagaaata	gataaaataa	atggaaaatt	240
	agaaggtaga	tatgctgctg	aatttggaac	attctctgca	atgataaggt	ctcctgttaa	300
	agatggtctt	ctgaaggcta	actgcggaat	gaaagtttct	attccaacta	aagccttaga	360
25	attgatggac	atgcaaaactt	tcaaagcaga	gcctcccag	aagccatctg	ccttcgagcc	420
	tgccattgaa	atgcaaaagt	ctgttccaaa	taaagccttg	gaattgaaga	atgaacaaac	480
	attgagagca	gatgagatct	cccatcagaa	tccaaacaaa	aggactatga	aaaaagttct	540
	tgggattctg	agagtctctg	tgagactggt	tcacagaaag	gatgtgtgtt	tacccaagn	600
	tgcgctcaa	aaggaaattg	attaaattaa	tgggaaaatt	tanaanggtc	ttctggtnaa	660
30	aaaggncttn	tgaaggctaa	ctgcggaatg	aaagttctat	tccacttaaa	gnccttanaa	720
	atggtgggca	tgcaaaacttt	t				741
	<210> 571						
	<211> 702						
35	<212> DNA						
	<213> Homo sapiens						
	<400> 571						
	catattgata	tatacggttt	tttaaattggt	tattgtaatt	aaatatctcc	tcatttttct	60
40	cttttaggag	atgatgttgc	attttcctct	caagaaaatg	aatatcaatt	gttatcttgc	120
	ttttgttgtc	agctttctta	tgtgcatgaa	ctaattgctg	ttgaagccac	atatttttgc	180
	tttgtagttg	aaataatttc	tgatctanag	actcctgctg	ttcagtgtgt	ttgttcacat	240
	tatcttgttc	gttttgatag	atgtgttcag	cttccttcat	ttgacactgt	gtttcacggt	300
	ggtctctttg	tgcatgttct	gaaaccaatg	tattttctct	tagagcatct	ccggcataat	360
45	tgagattaat	tttaggctt	ttggatttcc	tttgagcttc	agaaagtggg	tgatggagca	420
	cctcattggt	atatatcgga	ctactccat	caacattcat	ttttctttgc	aaacaagcat	480
	ctcctgcaat	gtggaaagca	ggttcttgac	ttttctttga	tgacacaatt	tgatcatggg	540
	ccttgnacca	gcaaaaacca	gtctaggaat	ggnggggac	aatttccngc	ctctagnatt	600
	tctttggnct	tggtttccct	caatttaaaa	agtgaagcat	tggnggtcct	caacctnttc	660
50	aaaaccttta	accgcccccc	tttttggaag	agcccccttt	ag		702
	<210> 572						
	<211> 1030						
	<212> DNA						
55	<213> Homo sapiens						
	<400> 572						
	aacaaaagga	ctatgaagaa	agttcttggt	attctgagag	tctctgtgag	actgtttcac	60
	agaaggatgt	gtgtttaccc	aaggctacac	atcaaaaaga	aatagataaa	ataaatggaa	120
60	aattagaaga	gtctcctgat	aatgatggtt	ttctgaaggc	tccctgcaga	atgaaagttt	180
	ctattccaac	taaagcctta	gaattgatgg	acatgcaaac	tttcaaagca	gagcctcccg	240
	agaagccatc	tgccatttag	cctgccattg	aaatgcaaaa	gtctgttcca	aataaagcct	300
	tggaattgaa	gaatgaacaa	acattgagag	cagatcagat	gttcccttca	gaatcaaaac	360

	aaaagaaggt	tgaagaaaat	tcttgggatt	ctgagagtct	ccgtgagact	gtttcacaga	420
	aggatgtgtg	tgtacccaag	gctacacatc	aaaaagaaat	ggataaaata	agtggaaaat	480
	tagaagattc	aactagccta	tcaaaaatct	tgatagacgt	tcattcttgt	gaaagagcaa	540
	gggaacttca	aaaagatcac	tgtgaacaac	gtacaggaaa	aatggaacaa	atgaaaaaga	600
5	agtttttgtgt	actgaaaaag	aaactgtcag	aagcaaaaaga	aataaaatca	cagttagaga	660
	acaaaaaagt	taaatgggaa	caagagctct	gcagtgtgag	ggttctcaca	ctcatgaaaa	720
	tgaaaattat	ctcttacatg	aaaattgcat	gttgaaaaag	gaaattgcct	gcttaaactg	780
	ggaatacccc	actggaaccc	catcccggaa	aagggaaaata	atactttgag	gacttttagat	840
	tttaaagaaa	agaatgctgg	acttcgatga	ccttaactgg	aagagggatc	tttcttaaag	900
10	ggtttcattt	atgggcagct	taagtttgat	actggacaca	tgctcctttt	aattgagggga	960
	aacagacaag	aatcttaggg	gaaatgattc	cctcttact	ggtttggtggc	aaacctgtgc	1020
	aattggtcca						1030
	<210> 573						
15	<211> 782						
	<212> DNA						
	<213> Homo sapiens						
	<400> 573						
20	gacttgaaga	cagtcaaaga	gaaggatgac	attctgtttg	aagaccttca	agacaatgng	60
	aatgagaatg	gtgaaggtga	aatagaagat	gaggaggagg	aggggttatga	tgatgatgat	120
	gatgactggg	actgggatga	aggagttgga	aaactcgcca	aggggttatgt	ctggaatgga	180
	ggaagcaacc	cacaggcaaa	tcgacagacc	tccgacagca	gttcagccaa	aatgtctact	240
	ccagcagaca	aggtcttacg	gaaatttgag	aataaaatta	atttagataa	gctaaatggt	300
25	actgattccg	tcataaataa	agtcaccgaa	aagtctagac	aaaaggaagc	agatatgtat	360
	cgcatacaag	ataaggcaga	cagagcaact	gtagaacagg	tggtggatcc	cagaacaaga	420
	atgattttat	tcaagatgtt	gactagagga	atcataacag	agataaatgg	ctgcattagc	480
	acaggaaaaag	aagctaattgt	atccatgcta	gcacagcaaa	tggagagagc	agagcaatca	540
	aaatttataa	aacttctatt	ttggtgttca	aagatcggga	taaatatgta	agtggagaat	600
30	tcagatttcg	tcattggctat	tgtaaaggaa	accctaagaa	aatggggaaa	acttgggccg	660
	aaaaagaaaa	tgaaggactt	aatcaggctt	aaccacaagc	agaaaatacc	attgttccag	720
	aacccaataa	tgcttaaaaa	atcatgttcc	ttggccatga	agttttcatt	cggggaaaaa	780
	aa						782
35	<210> 574						
	<211> 776						
	<212> DNA						
	<213> Homo sapiens						
40	<400> 574						
	atttagcctg	ccattgaaat	gcaaaagtct	gttccaaata	aagccttggga	attgaagaat	60
	gaacaacat	tgagagcaga	tcagatgttc	ccttcagaat	caaaacaaaa	gaaggttgaa	120
	gaaaattctt	gggattctga	gagtcctcgt	gagactgttt	cacagaagga	tgtgtgtgta	180
	cccaaggcta	cacatcaaaa	agaaatggat	aaaataagtg	gaaaattaga	agattcaact	240
45	agcctatcaa	aatcttggga	tacagtccat	tcttgtgaaa	gagcaaggga	acttcaaaaa	300
	gatcactgtg	aacaacgtac	aggaaaaatg	gaacaaatga	aaaagaagtt	ttgtgtactg	360
	aaaaagaaac	tgtagaagc	aaaagaaata	aatcacagt	tagagaacca	aaaagttaaa	420
	tggaacaag	agctctgcag	tgtgagggtt	ctcacactca	tgaaaatgaa	aattatctct	480
	tacatgaaaa	ttgcatgttg	aaaaaggaaa	ttgcntgctt	aaactgggaa	taccnactg	540
50	gaaccccatc	cnggaaaagg	gaaataatac	tttgangant	ttagatttta	aagaaaaana	600
	tgctggactt	cgatgacctt	aactggaaga	nggatcttct	ttaangggtn	tcatntatgg	660
	gcagcttaag	tntgatactg	gacacatgct	ccntntaatt	gagggaaaca	gacaagaatc	720
	ttaggggaaa	tgattccctt	cttactgggt	tgtggcaaac	cttgtcaatt	gggtca	776
55	<210> 575						
	<211> 741						
	<212> DNA						
	<213> Homo sapiens						
60	<400> 575						
	gacttaaaagt	gatgatttaa	tgctgtttca	tgtattcaga	ggtgtacaac	catcacaatc	60
	aatttcagag	catcctcata	agtgcaccca	aaagaaaccc	tgtacttatt	agcagtgaat	120
	ctctatttcc	tcgcaaacct	cctcccggtc	ctaggcaagc	actcatctac	tttctctctc	180

	tcaaacagat	ttgcctattc	tggaacatttc	atacagatca	aatcatgcaa	tatgaaacct	240
	tttgcaattg	gcgtctttta	ttttacaagt	cttcaaggng	catttacctt	gtaggtgttt	300
	cattacttca	ttttattttac	ttattttatgt	atttagaaac	atggtttgct	ctgtcaccca	360
	ggctggagtg	cagtgatgca	taatcatagc	tcactccagc	cttgaatacc	tggtctcaag	420
5	caatcctccc	accccgccct	cctgagtagc	tgtggcagga	gaatggcgtg	aacctgggag	480
	gcagagtttg	cagtgaagcg	agattgcgcc	actgcactcc	agcctgagtg	acagagcgag	540
	attctgggtg	gattgaatga	tgtctgctgc	atcatcaggg	tagatgggaa	tcctgtgcag	600
	ctttatgcaa	ttcgtgaaca	agtaattctt	cacactggta	ttttatgtct	gnagggtctc	660
	angaagaaat	catgaatttt	tcttctnaaa	anaagtattc	tggtgaaacc	anactattgg	720
10	gtaagaattt	caacataaag	g				741

<210> 576

<211> 609

<212> DNA

15 <213> Homo sapiens

<400> 576

	gtgagactgt	ttcacagaag	gatgtgtgtg	tacccaaggc	tacacatcaa	aaagaaatgg	60
	ataaaaataag	tggaataatta	gaagattcaa	ctagcctatc	aaaaatcttg	gatacagttc	120
20	attcttgtga	aagagcaagg	gaacttcaaa	aagatcactg	tgaacaacgt	acaggaaaaa	180
	tggaacaaat	gaaaaagaag	ttttgtgtac	tgaaaaagaa	actgtcagaa	gcaaaaagaa	240
	taaaatcaca	gttagagaac	caaaaagtta	aatgggaaca	agagctctgc	agtgtagat	300
	tgactttaaa	cccagaagaa	gagaagagaa	gaaatgccga	tatattaaat	gaaaaaatta	360
	gggaagaatt	aggaagaatc	gaagagcaca	taggaaagag	ttagaagtga	aacaacactt	420
25	gaacaggctc	tcagaatata	agatatanaa	ttgaagagtg	tagaaagtna	ttgaaatcag	480
	ggttctcaca	ctcatgaaaa	tgaaaattat	ctcttctntga	aaattgcatg	ttgaaaaagg	540
	gaattgcntg	cttaaaactgg	aaatngccnc	nctggaaacnc	ccatccngga	aaagggaaat	600
	aaatctttg						609

30 <210> 577

<211> 739

<212> DNA

<213> Homo sapiens

35 <400> 577

	attgatatat	acggnttttt	aaatggttat	tgtaattaaa	tatctcctca	tttttctctt	60
	ttaggagatg	atgttgcatt	ttcctctcaa	gaaaatgaat	atcaattgtt	atcttgcctt	120
	tggtgtcaga	tttcttatgt	gcatgaacta	attgtctgtg	aagccacata	tttttgcctt	180
	gtagtgtgaa	taatttctga	tctanagact	cctgctgttc	agtgtgtttg	ttcacattat	240
40	cttggttcgtt	ttgatacatg	tggttcagctt	ccttcatttg	acactgngtt	tcacgttggg	300
	ctctttgtgc	atgttctgaa	accaatgtat	tttctcttag	agcatctccg	gcataattga	360
	gattaatttt	taggcttttg	gatttccttt	gagcttcaga	aagtgggtga	tggagcacct	420
	cattgttata	tatcgtacta	ctcacatcaa	cattcatttt	tctttgcaaa	caagcatctc	480
	ctgcaatgtg	gaaagcaggt	tcttgacttt	ttcttgatgt	cacaatttga	tcatggtctt	540
45	gtacagcaga	agccagtcct	ggatgggtgtg	attcaatttc	tgcctctang	atttctttgg	600
	cttgnttttc	cttcaattta	aaaagttagc	attgggttct	caagctntca	anaactttta	660
	actggcccac	tttattggag	atgccccctt	taagttaaata	ggattccctn	tttcagtttt	720
	aaggggcatc	ctggaagtc					739

50 <210> 578

<211> 625

<212> DNA

<213> Homo sapiens

55 <400> 578

	gacttgaaga	cagtcaaaga	gaaggatgac	attctgtttg	aagaccttca	agacaatgng	60
	aatgagaatg	gtgaagggtga	aatagaagat	gaggaggagg	agggttatga	tgatgatgat	120
	gatgactggg	actgggatga	aggagtgtga	aaactcgcca	agggttatgt	ctggaatgga	180
	ggaagcaacc	cacaggcaaa	tcgacagacc	tccgacagca	gttcagccaa	aatgtctact	240
60	ccagcagaca	aggtctttacg	gaaatttgag	aataaaatta	atttagataa	gctaaatgtt	300
	actgattccg	tcataaataa	agtcaccgaa	aagtctagac	aaaaggaagc	agatatgtat	360
	cgcatacaag	ataaggcaga	cagagcaact	gtagaacagg	tgttggatcc	cagaacaaga	420
	atgattttat	tcaagatgtt	gactagagga	atcataacag	agataaatgg	ctgcatttagc	480

acaggaaaag aagctaattgt atccatgcta nccacagcaa atggagagag cagagcaatc 540
 aaaattttatt aaactttctat tttgggtgttc aaagatcggg attaaatatg taagtggaga 600
 attcaagatt tegtcatggc tattg 625

5 <210> 579
 <211> 686
 <212> DNA
 <213> Homo sapiens

10 <400> 579
 atcaatgtca ggggtccgtgg tgtgttttctt ggggcgggca tgggtctcct gctcttcaga 60
 gtctgtgtca gagcactcag agcttccaat atcttctgaa tcagaacaag tcttttcttc 120
 cacttgattt tctaggagtg cagggacctt ctgaactcct gacaaatctt tcttcaatcc 180
 tgtaacagtc tggatatagaa tattatcttg ttgggcattc atggccatgt cctcttctctt 240
 15 caatttcata attatgtcca tatccctctc ataatttttc acttcattca aggttctagg 300
 aatatatgct cgcttaaaca cctcttcttc cactgatct tggctagacc gttcttctctt 360
 ggtcctttga gatgctattt ccatggcctt tgagagataa gcatccatgt tctcatgtgt 420
 aatggatgga tctgtgacaa attcaaagag ctcccgacac gtcatgacag caacactgtg 480
 cctcataaag aaatcattga cgttggcgca atcctttctc aagaactcca aggcattgtg 540
 20 gtgggtcgtgc tccacggact gagacacgtc aatgatatac acgcctccac cgtggtacag 600
 catgttaaatt tcaactgagat ctgcatggac aaagtctggc atcctgatac attcttctca 660
 tgtactgaat gacctgcagg tcaact 686

25 <210> 580
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 580
 30 ctgaacctga tcagaaaccg gaacctgtgg acaaagtggc tgccatgaga gagtccggg 60
 tgttgacacac tgccctgcac agcagctcct cttacagggg ggcgggtctt aagatgctca 120
 gcaataagga gtctctggat cagatcattg tggccacccc aggcctcagc agtgacccta 180
 ttgctcttgg ggttctccag gacaaggacc tcttctctgt ctctgctgat cccaatatgc 240
 ttgatacgtt ggtgcctgct caccagccc tegtcaatgc cattgtcctg gttctgcaact 300
 35 ccgtagcagg cagtgcacca atgcctggga ctgactctc ttcccgagc atgcccctca 360
 gctcataccg ggaatgcca ggtggcttcc tgtttgaagg gctctcanat gatgaggatg 420
 actttcacc aaacaccagg tccacacct ctacagtag tccagctcc cgcagcctc 480
 ctggggtaca agtgagctg ctgggccccg gccatcacc caaagtgagc tggccaccgc 540
 cttggccctg gccagcactn cggagagcaa gcttttaaaa caccgacttn ctggcacc 600
 40 aagggtcatt tcttaagga ccttaccna tgtccctctg gtgtccagtc aaggggacgc 660
 ccattaacca atgatcttt taagcccaag cccttacagc a 701

45 <210> 581
 <211> 696
 <212> DNA
 <213> Homo sapiens

<400> 581
 gagagtgcac catcaggtat attggggaag ggagagatgg aggcaccttc atgagtgcct 60
 50 cccaagggca gtacgtctg caacttgctg ggggttcagg ggaagcagg agttcatggg 120
 gctcctccag caaagatgag ctccagggt gcttgatgt cccacagggt ggcctgcagg 180
 gccgcaggc tcagctcatc gtctggatg cccatgtcac gtagctgctg cagctggggc 240
 tgccactggc tctgaaggct gggctgcca naggcctgaa gggcatgctg tagggcttgg 300
 ctgaagagat cattggtgat gggcgtccct gactggacac canaggacat tgggtgaggtc 360
 55 cctgaggaat gacctgggt gccaggagt ggtgtgtgag agctgctctc cggagtgtctg 420
 gccagggcca aggcgtggc cagctcactc tgggtgatgg gccggggccc ancagctcca 480
 ctgtaccca gggaggtg gcggagctg ggagtagctc taanagggtg tggacctggg 540
 gtttgggtga aagtcactc catcatctga gaaccttca aacaggaagc ccctggcata 600
 tccgggtatt agctggang catgctcng gaanaggaat caatccagg cattggggcc 660
 60 ctgctgctt ccgagtgcac aaccaggaac aatggc 696

<210> 582
 <211> 689

<212> DNA

<213> Homo sapiens

<400> 582

5	gcttccagga	gcgcgcccgc	atcgagaagg	cttatgccc	gcagttggct	gactgggccc	60
	gaaagtggag	ggggaccgtg	gagaagggcc	cccagtatgg	cacactggag	aaggcctggc	120
	atgccttttt	cacggcggt	gagcggctga	gcgcgctgca	cctggagggtg	cgggagaagc	180
	cgcaagggca	ggacagtga	cgggtgcgcg	cctggcagcg	gggggctttc	caccggcctg	240
	tgctggggcg	cttcgcgag	agccggggcg	ccgaggacgg	cttcgcgaag	gcccagaagc	300
10	cctggctgaa	gaggctgaag	gaggttgagg	cttccaagaa	aagctaccac	gcagcccggg	360
	aggatgagaa	gaccgcccag	acgagggaga	gccacgcaaa	ggcagacagc	gccgtctncc	420
	aggagcagct	gcgcaaaactg	caggaacggg	tggaaacgctg	tgccaaggag	gccgagaaga	480
	caaaagctca	gtatgagcag	acgctggcag	agctgcacg	ctacactcca	cgctacatgg	540
	aggacatgga	acaagccttt	gagaccttgc	aggcccgccg	agcggcancg	gcttcttttc	600
15	ttnaaggata	tgctgntcac	cttacaccaa	cacctggacc	tttttcagca	gtgagaagtt	660
	ncatgaaact	tcaccogtga	cttgaccca				689

<210> 583

<211> 702

<212> DNA

<213> Homo sapiens

<400> 583

25	ggtgtttttg	tttttgtgtg	tgggtgtgtg	tcaagtttta	atacacgcta	gaacaagcca	60
	caagaggggtg	ctgctaggcc	agaactacac	tcaccccaag	cccaccccag	gaaccccaaa	120
	gcagagggtca	ggaactgagt	ccacagctcc	tggggaggcc	caggcacccc	tgaacgcttc	180
	tgtaacctct	gacctcccat	cttgccctca	gcctagactc	gtcccttccc	taccagtccc	240
	ttccctagac	aaaggccccc	ccccctccctg	ggtcccagga	cttcctccct	caagggacag	300
	aggagcagcc	agagagcgac	ggttcagggg	cctgaggggtc	cggtcttcca	ggagaagctg	360
30	ggctctgaac	caggggtggg	aaacgttgca	gaagggctgt	caggacactc	aggcgcccac	420
	acactccacg	tagttggcag	ggtacaggcc	aatgcggcca	ctctgcaact	ggccttggca	480
	ccagccctgc	tgcctcctct	cactcatctt	cagcagctcc	tccccgtctc	ggaagctcag	540
	ctcatcagct	tccctggccag	cgtagtcata	gcgtgccctn	cccgaacccc	ggtgggagcc	600
	tttcngggac	tctcttcac	tgaccactcc	tcatacctgc	ccgtgectgg	ggaccccggg	660
35	actgggggtgg	ggggcggnng	catctntgta	ggccaatgnt	tg		702

<210> 584

<211> 647

<212> DNA

<213> Homo sapiens

<400> 584

45	ccgcccctcc	cgatttcttc	cgggctacag	gcgacagagc	tgagccaagc	gtttactggg	60
	cagctgttac	gctcagattc	caaataaaaa	tgtttgagag	cgctgactct	acagccacaa	120
	gatctggcca	ggatctctgg	gctgaaattt	gttctgtct	gccaaatcct	gaacaagaag	180
	atggtgccaa	caatgcattc	tcagactcct	ttgtggattc	ttgcctgaa	ggtgaaggcc	240
	agagggaggt	ggctgacttt	gctgtccagc	cagctgtaaa	gccttgggct	cccttgagg	300
	attcagaagt	gtatttagca	tctctagaga	agaagctaag	aagaatcaaa	ggtttaaatc	360
	aggaagtga	ttccaaggac	atgcttcgaa	ctctggccca	agccaagaag	gaatgctggg	420
50	atcggttctc	ccaggagaag	ttagcttcag	agttctttgt	ggatggactt	gattctgatg	480
	agagcacctt	ggaacatttc	aagaggtggc	tccagccaga	taaagttagc	gtcagcacag	540
	aggaggtcca	gtatctgatt	cctccagagt	cacaggttga	gaaaccagtg	gcccaggagc	600
	gaaccaccan	ccgggggaca	agccagcagc	ngcagaaaca	gttaatt		647

<210> 585

<211> 712

<212> DNA

<213> Homo sapiens

<400> 585

60	actttcacat	ttgatcttta	gcagacttct	aacctgcaga	gacagagctc	agccaagctg	60
	tgagacacag	aggaaagcag	cattttgatc	cagtggtcac	tgggtcagtc	acttcatccg	120
	agacagtcac	acatgccagc	cccaggtaag	tccctggggg	cttgacagctg	ttttctttgt	180

	ggagtggaaa	tttgggtttt	ttccttcagt	ggattttctc	ctgctgctgt	cactgagctc	240
	cacgctgctc	gctctggacc	cgagacagct	gctcggcggtg	tgtgtgtgtg	tgtgtgtgtg	300
	tgtgtgtgtg	tgtgtgtgtg	tgtaatctac	tgttctgctg	ctgctggctt	gtccccggct	360
	gctggctcgt	cctcggccac	tggcttctca	acctgtgact	ctggaggaat	cagatactgg	420
5	acctcctctg	tgtcgacggn	tactttatct	ggctggagcc	acctcttgaa	atggtccaag	480
	gngetctcat	cagaatcaag	tccatccaca	aaaaactctg	aagctaactt	ctcctggagg	540
	aaccgatccc	agcatttctt	nttggcttgg	gccaaagtcc	gaagcatgtc	cttngaagtc	600
	acttctgatn	naaacctttg	attcttctta	ncttctctc	tanaaagctn	aatcaccttt	660
	gaatnctgga	aggggaccca	aggntttaca	gctgngtgga	cagnaaaatt	ag	712
10	<210> 586						
	<211> 851						
	<212> DNA						
	<213> Homo sapiens						
15	<400> 586						
	accggctctg	cgggcgccac	caggcccaga	ccaagctact	accagaagtt	gaattctaatt	60
	aattagctat	tttataaagg	taacgagaaa	aaatacacta	tgtctgatga	agtttttagc	120
	accacttttg	catatacaaa	gagtccaaaa	gttaccaaaa	gaactacttt	ccaggatgag	180
20	ctaataagag	caattacagc	tcgctcagcc	agacaaagga	gttctgaata	ctcagatgac	240
	tttgacagtg	atgagattgt	ttcttttaggt	gatttttctg	acacttcagc	agatgaaaat	300
	tcagtttaata	aaaaaatgaa	tgacttttcat	atatacagatg	atgaagaaaa	gaatccttca	360
	aaactattgt	ttttgaaaac	caataaatca	aacggtaaca	taaccaaaga	tgagccagtg	420
	tgtgccaatca	aaaatgaaga	ggaaatggca	cctgatgggt	gtgaagacat	tgttgtaaaa	480
25	tctttctctg	aattctcaaaa	taaggatgag	gaatttgaaa	aagacaaaat	aaaaatgaaa	540
	cctaaaccca	gaattctttc	aattaaaaagc	acatcttcag	aaaacaacag	ccttgacaca	600
	gatgatcact	ttaaaccatc	acctcggcca	agggagtatg	ttgaaaaaga	aaagtcacat	660
	ggagggagaa	ggatggacta	gaagataaag	aaactgccct	cagtgaagaa	attggagtta	720
	cattctgccc	ttnttncctt	caacgccgaa	tggcntacaa	ttagaagctg	agaaaaagc	780
30	attcttntga	aaaaccttga	tcctgnngga	tctgctttac	aagtctagca	tcatcatcct	840
	ttaaacaatt	t					851
	<210> 587						
	<211> 675						
35	<212> DNA						
	<213> Homo sapiens						
	<400> 587						
	gcttgaaaaa	agcttccctt	ttttcattcc	atttctcaac	agcagttaaa	ttatctttct	60
40	ttttctcggc	aacagtttcc	tcctctttct	gtttctttgc	tctttcataat	tctctctcct	120
	ttctattttt	ctctttaaga	tattccatct	ttttctcttt	ccatttttca	aaagcttgta	180
	gtgcttctcc	ttttcttgca	gcattttctt	cttcagtttt	cctcttggtt	ttttcttcaa	240
	gcctcttttt	ggcagctatt	ttctttgctt	ccttttcttt	catagccttc	caggcctcaa	300
	atgatgctaa	tgcttcttct	cttttagcag	ctttttctg	ttcatttttg	atccttaagt	360
45	tttcaacttc	aattcttttt	attctgngca	tttcagttaa	atatacattt	ttcttttcta	420
	accactcctg	ataaacagct	gcccttatgt	tatctgctct	atcaggttct	atgctctggt	480
	tctgngaagg	tttttgcca	agacttttaa	agtcctaaa	tagtgagaag	aggtagttgt	540
	cgggtggagtc	tccttttaga	actaagattt	cttcaaaaac	tcagaggtca	ttaatctggg	600
	cagatgcnc	tgatgctct	attatttggg	nggcctttta	ttccttatat	ttcnatcttc	660
50	aatgggttct	ttgaa					675
	<210> 588						
	<211> 642						
	<212> DNA						
55	<213> Homo sapiens						
	<400> 588						
	aaaatgaatt	tgccacaccc	ttttggncca	attactgcgc	gacctcccat	gtatgaagac	60
	tatatgccat	tgcatgcacc	tcttccaccc	acatctcttc	agccacctga	ggaacctcct	120
60	ttgccagacg	aggatgagga	attatctagt	gaagaatcag	aatatgaaag	cactgatgat	180
	gaggaccgac	agagaatgaa	caaattaatg	gaactagcaa	atcttcagcc	caaaagacct	240
	aaaacaataa	agcagcgcca	tgtgagaaaa	aagagaaaaa	taaaggatat	gttgaataca	300
	cctttgtgtc	cttcacacag	tttacatcca	gtgctgttac	cttcagatgt	atttgaccaa	360

	ccacaacctg	taggtaacaa	agaattgaa	ttccatatat	ctaccgacat	gccagctgca	420
	tttaagaaag	atttagaaaa	ggaacaaaat	tgtgaggaaa	aaaatcatga	tttacctgct	480
	actgaagttg	atgcatccaa	tataggattt	ggaaaaatct	tccccaaacc	taatttggac	540
	atcacagagg	agattaaaga	agactctgat	gaaatgcctt	cagaatgtat	ttctagaang	600
5	gaattgggaa	aaggcagaat	ttctagaaaa	agaaatggga	ac		642
	<210> 589						
	<211> 650						
	<212> DNA						
10	<213> Homo sapiens						
	<400> 589						
	ggaaaggaaa	caatttattn	tntttgngga	aaatcattaa	aatncatgta	atntgtttcc	60
	aattcactgn	tttaaaggcn	tntanattta	atntttaaat	ncnctttcaa	agctgttacc	120
15	cncagttcca	tantccaggg	gggcaatttn	ttcctntcaa	agttanaaaag	cncttgaagg	180
	ncncgggatt	caaaaaaacc	ntntttaatt	tttaacnctt	tntttttcct	tccttaggat	240
	cttgntttgg	nctancanat	cgagcaaaact	gaaccnccat	gggttttcca	aaaagcncat	300
	ntccattanc	ttcctttaag	gnttttgctg	ntgctttttc	attaggaagt	ccaatgaaag	360
	cttgnccctt	caatacnacc	tttttnatna	aacgtttntc	aaacatgata	cnctgngttt	420
20	ntgatgaaaa	gncaacatnt	nttccaaaaa	tntntttaag	gnccttttnt	tgaacntgtt	480
	tagctaaatt	ctttacntaa	attctacagt	ttggttcncc	cggntcataa	cttntgaaaa	540
	ctgaaagngt	ttccatttct	tntctaanaa	attctgcctt	tttccaattn	ccttttanaa	600
	atacattctg	aangcctttc	atcanaaaagc	ttctttaatc	tcnctggga		650
25	<210> 590						
	<211> 992						
	<212> DNA						
	<213> Homo sapiens						
30	<400> 590						
	aacaaaagga	ctatgaagaa	agttcttggg	attctgagag	tctctgtgag	actgtttcac	60
	agaaggatgt	gtgttttacc	aaggctacac	atcaaaaaga	aatagataaa	ataaatggaa	120
	aattanaaga	gtctcctgat	aatgatgggt	ttctgaaggc	tccctgcana	atgaaagtgt	180
	ctattccaac	taaagcctta	naattgatgg	acatgcaaac	tttcaaagca	gagcctcccc	240
35	agaagccntc	tgccctcgag	cctgccattg	aaatgcaaaa	gtctgttcca	aataaagcct	300
	tggaattgaa	gaatgaacna	acattgagag	cagatcagat	gttcccttca	naatcaaaac	360
	aaaagaaggn	tgaagaaaaa	tcttgggatt	ctganagtct	ccntgagact	gtttcacaga	420
	aggatgtgtg	tgtacccaag	gctacacatc	aaaaagaaat	ggataaaaata	agtggaaaaa	480
	tagaagattc	aactagccta	tcaaaaaatc	tggatacagt	tcattcttgt	gaaagancaa	540
40	nggaacttcn	aaaagatcct	gtgaacaacc	gtacnngaaa	aatggaacaa	atgaaaaaga	600
	agttttgggt	tnttgaaaaa	gaaactgtcc	gaagccaaag	aagttaatca	cggttggang	660
	aaccaaaaag	tttantggga	accaagagct	ctgcatgtga	ggttttcaca	ctctngaaaa	720
	tgaaaattat	ctnttacntg	aaaattgctt	gttgaaaaag	gaaattgcct	gcttaaaactg	780
	ggaattgccc	nctgaacncc	cnttccgggg	aaagggaaat	natnctttgn	nggccttaaa	840
45	atttaaaaaa	aaagaatggt	ggacttctga	tgaccttnac	tgaagaggga	tctttactta	900
	aagggccttt	caatttaggg	gcnccttnaa	gttttgnnnc	tggnaaacna	angcnccttt	960
	taattggngg	gaaaccagac	aagaaattct	tt			992
	<210> 591						
50	<211> 738						
	<212> DNA						
	<213> Homo sapiens						
	<400> 591						
55	atctacttat	ttttattaac	ctttaaaaaa	tatatataaa	gcacacattg	atttcaatgt	60
	ttactgtttg	ttacaagtgt	tttgggtcct	tacttagaag	ttcagtgatg	tttctgtgac	120
	cagaaataca	tcataggaat	gtcactctta	tttatgtcag	ttagcctatg	gtaaaagtgg	180
	ttttattata	cgtctttcac	ttaagctcag	ttccaagacc	tattgaccac	gttaagtaag	240
	gacttactac	ataactaagca	tgaaaggaga	caggttactg	tcagagacag	gagttacaaa	300
60	tgcaattgac	cctcgaatga	catagtgtga	actgcatggg	tgctcttggt	agcagatatt	360
	tttcaagaaa	tataaaaaaa	tttggacgcc	gggcacggta	gctcacgcct	gtaatccag	420
	aactttggga	ggccgaggcg	ggcggatcac	gaggtcagga	gatccagacc	atcctggcta	480
	acacggngaa	aaccgcgtct	tactaaaaat	acaaaaaaaa	aaatagggtg	gcgtgggtgc	540

aggcgccctgt	agtcctcacta	ctcggggaggc	tgtggcagga	gaatggcgtg	aacctggggag	600
gcagagtttg	cagtgagccg	aanattgcgc	cactgcactc	cacctgagtg	acanaacgag	660
atctgggttg	attgaatgaa	gtctgctgct	catcagggna	gatgggaatc	ctgngcantt	720
tttgcaattn	gggaacaa					738

5

<210> 592
 <211> 681
 <212> DNA
 <213> Homo sapiens

10

<400> 592

gttatgacga	tgatgatgat	gactgggact	gggatgaagg	agttggaaaa	ctcgccaagg	60
gttatgtctg	gaatggagga	agcaaccac	aggcaaatcg	acagacctcc	gacagcagtt	120
cagccaaaat	gtctactcca	gcagacaagg	tcttacggaa	atttgagaat	aaaattaatt	180
tagataagct	aaatgttact	gattccgtca	taaataaagt	caccgaaaag	tctagacaaa	240
aggaagcaga	tatgtatcgc	atcaaagata	aggcagacag	agcaactgta	gaacaggtgt	300
tggatcccag	aacaagaatg	atcttattca	agatgttgac	tagaggaatc	ataacagaga	360
taaattggctg	cattagcaca	ggaaaagaag	ctaattgtatn	ccatgctagc	acagcaaatg	420
gagagagcag	agcaatcaaa	atcttataaaa	cttctatttt	ggtgttcaaa	gatcgggata	480
aatatgttnag	tggagaattc	anatttcgtc	atggctattg	taaaggaaaac	cctangaaaa	540
tggngaaaaac	ttgggccnga	aaaagaaaat	gaaggactta	atcaggctta	accacaagca	600
gaanataccn	ttgttccaga	acccaataat	gcttaanaaa	tcattgttct	tggccatgan	660
gttttcattc	ggggaaaaaa	a				681

25

<210> 593
 <211> 723
 <212> DNA
 <213> Homo sapiens

30

<400> 593

cacatgttta	ggaattttgt	tttttctttt	ctctctctgg	gcttctttga	ccatcttttt	60
tctttctttt	ttatcaatgt	caggggtccgt	ggtgtgtttc	ttggggcggg	catggtctcc	120
ctgctcttca	nagtctgtgt	canagcactc	anagcttcca	atatctcttg	aatcanaaca	180
agtcctttcc	tccacttgat	tttctaggag	tgcagggacc	ttctgaactc	ctgacaaaac	240
tttcttcaat	cctgtaacag	tctgggtatan	aatattatct	tgttgggcat	tcattggccat	300
gtcctcttcc	ttcaatttca	taattatgtc	catatccctc	tcataatttt	tcacttcatt	360
caaggttcta	ggaatatatg	ctcgcttaaa	cacctcttca	tccacatgat	cttggtctaga	420
cogttcttcc	ttggctcttt	gagatgctat	ttccatggcc	tttgagagat	aagcatccat	480
gttctcatgt	gtaatggatg	gatctgtgac	aaattcaaaag	agctcccgca	cagtcatgac	540
agcaacactg	tgccatcataa	agaaatcatt	gacgttggcg	caatcctttc	tcaagaactc	600
caaggcatgt	ggggtggnc	ggcctccacg	gactggagac	acgtcaatga	tntacacncc	660
tncccgggg	nacagcatgt	taaaatcact	ganaatctgc	atgggccaag	tctggcatcc	720
tga						723

45

<210> 594
 <211> 173
 <212> PRT
 <213> Homo sapiens

50

<400> 594

Phe	Arg	Ile	Glu	Lys	Asp	Thr	Ala	Glu	Glu	Ile	Asn	Asn	Met	Lys	Thr
1				5					10					15	
Lys	Phe	Lys	Glu	Thr	Ile	Glu	Lys	Cys	Asp	Asn	Leu	Glu	His	Lys	Leu
			20					25				30			
Asn	Asp	Xaa	Xaa	Lys	Glu	Lys	Gln	Ser	Val	Glu	Arg	Lys	Cys	Xaa	Gln
		35					40				45				
Leu	Asn	Thr	Lys	Val	Ala	Lys	Leu	Thr	Asn	Glu	Xaa	Lys	Glu	Glu	Gln
		50				55				60					
Glu	Met	Asn	Lys	Cys	Leu	Xaa	Ala	Asn	Gln	Val	Xaa	Leu	Gln	Asn	Lys
65					70				75				80		
Leu	Lys	Glu	Glu	Glu	Arg	Val	Leu	Lys	Glu	Thr	Cys	Asp	Gln	Lys	Asp
				85				90				95			
Leu	Gln	Ile	Thr	Glu	Ile	Gln	Glu	Gln	Leu	Arg	Asp	Val	Met	Phe	Tyr

100 105 110
 Leu Glu Thr Gln Gln Lys Ile Asn His Xaa Pro Ala Glu Thr Arg Gln
 115 120 125
 5 Glu Ile Gln Glu Gly Gln Ile Asn Ile Ala Met Ala Ser Ala Ser Ser
 130 135 140
 Pro Ala Xaa Arg Gly Ala Val Gly Ser Cys Pro Pro Gly Arg Ala Ala
 145 150 155 160
 Ala Arg Gly Ala Ser Asp Leu Gln Ser Asn Arg His Pro
 165 170
 10
 <210> 595
 <211> 170
 <212> PRT
 <213> Homo sapiens
 15
 <400> 595
 Ser Trp Arg Ser Phe Glu Arg Arg Ser Val Arg Arg Lys Pro Ser Gly
 1 5 10 15
 20 Arg Ser Pro Ala Cys Pro Ser Pro Trp Arg Arg Lys Lys Arg Glu Ala
 20 25 30
 Arg Arg Lys Arg Arg Arg Pro Cys Met Arg Arg Arg Trp Lys Gly Lys
 35 40 45
 Arg Ser Pro Arg Arg Arg Glu Asn Trp Gly Arg Thr Gln Thr Leu Thr
 50 55 60
 25 Gln Ala Ser Cys Leu Ile Glu Thr Val Arg Arg Arg Ile Gly Phe
 65 70 75 80
 Gly Lys Ser Cys Gly Arg Ser Gly Lys Pro Ser Arg Arg Arg Ser Arg
 85 90 95
 Val Arg Arg Ser Arg Ser Pro Ser Ala Thr Gly Met Ala Leu Gly Thr
 100 105 110
 30 Gly Arg Thr Val Lys Met Arg Lys Gly Asn Thr Met Xaa Gln Phe Cys
 115 120 125
 Xaa Xaa Arg Ser Arg Ser Phe Gly Lys Thr Phe Ser Glu Leu Arg Ser
 130 135 140
 35 Pro Arg Val Glu His Leu Cys Thr Leu Xaa Glu Asp Phe Asp His Ser
 145 150 155 160
 Leu Thr Xaa Thr Val Phe Thr Asn Ser Ser
 165 170
 40
 <210> 596
 <211> 237
 <212> PRT
 <213> Homo sapiens
 45
 <400> 596
 Gln Tyr Lys Gly Ala Ala Ser Glu Ala Gly Arg Ala Met His Leu Met
 1 5 10 15
 Lys Lys Arg Glu Lys Gln Arg Glu Gln Met Glu Gln Met Lys Gln Arg
 20 25 30
 50 Ile Ala Glu Glu Asn Ile Met Lys Ser Asn Ile Asp Lys Lys Phe Ser
 35 40 45
 Ala His Tyr Asp Ala Val Glu Ala Glu Leu Lys Ser Ser Thr Val Gly
 50 55 60
 Leu Val Thr Leu Asn Asp Met Lys Ala Lys Gln Glu Ala Leu Val Lys
 55 65 70 75 80
 Glu Arg Glu Lys Gln Leu Ala Lys Lys Glu Gln Ser Lys Glu Leu Gln
 85 90 95
 Met Lys Leu Glu Lys Leu Arg Glu Lys Glu Arg Lys Lys Glu Ala Lys
 100 105 110
 60 Arg Lys Ile Ser Ser Leu Ser Phe Thr Leu Glu Glu Glu Glu Gly
 115 120 125
 Gly Glu Glu Glu Glu Glu Ala Ala Met Tyr Glu Glu Glu Met Glu Arg
 130 135 140

Glu Glu Ile Thr Thr Lys Lys Arg Lys Leu Gly Lys Asn Pro Asp Val
 145 150 155 160
 Asp Thr Ser Phe Leu Pro Asp Arg Asp Arg Glu Glu Glu Glu Asn Arg
 165 170 175
 5 Leu Trp Glu Glu Leu Arg Gln Glu Trp Glu Ala Lys Gln Glu Lys Ile
 180 185 190
 Lys Ser Glu Glu Ile Glu Ile Thr Phe Ser Tyr Trp Asp Gly Ser Gly
 195 200 205
 His Arg Pro Asp Ser Gln Asp Glu Lys Gly Gln His His Ala Xaa Val
 210 215 220
 10 Leu Xaa Xaa Ala Leu Glu Ile Leu Arg Lys Asp Phe Gln
 225 230 235

<210> 597
 <211> 255
 <212> PRT
 <213> Homo sapiens

<400> 597
 20 Ser Lys Ser Ser Xaa Asn Val His Lys Cys Ser Thr Leu Gly Asp Leu
 1 5 10 15
 Ser Ser Leu Lys Val Phe Pro Lys Asp Leu Glu Arg Xaa Xaa Gln Asn
 20 25 30
 Xaa Cys Met Val Leu Pro Phe Leu Ile Leu Thr Val Arg Pro Val Pro
 35 40 45
 25 Arg Ala Ile Pro Val Ala Glu Gly Asp Leu Asp Leu Leu Thr Leu Asp
 50 55 60
 Leu Leu Leu Leu Gly Phe Pro Leu Leu Pro Gln Leu Phe Pro Lys Pro
 65 70 75 80
 30 Ile Leu Leu Leu Leu Thr Val Ser Ile Arg Gln Glu Ala Cys Val Asn
 85 90 95
 Val Trp Val Leu Pro Gln Phe Ser Leu Leu Arg Gly Asp Leu Phe Pro
 100 105 110
 Phe His Leu Leu Leu Ile His Gly Arg Leu Leu Phe Leu Leu Ala Ser
 115 120 125
 35 Leu Phe Phe Leu Leu Gln Gly Glu Gly Gln Ala Gly Asp Leu Pro Leu
 130 135 140
 Gly Phe Leu Leu Thr Leu Leu Leu Ser Lys Leu Leu Gln Leu His Leu
 145 150 155 160
 40 Gln Leu Leu Gly Leu Leu Leu Leu Gly Gln Leu Leu Leu Pro Leu Leu
 165 170 175
 His Gln Ser Leu Leu Leu Gly Leu His Val Ile Gln Gly His Glu Thr
 180 185 190
 His Gly Ala Gly Leu Glu Leu Cys Leu His Arg Val Val Val Arg Arg
 195 200 205
 45 Glu Leu Leu Val Asn Val Gly Phe His Asp Val Leu Leu Arg Asp Ala
 210 215 220
 Leu Leu His Leu Leu His Leu Leu Ala Leu Leu Leu Pro Leu Leu His
 225 230 235 240
 50 Gln Val His Gly Ala Ala Gly Leu Ala Arg Gly Ala Leu Val Leu
 245 250 255

<210> 598
 <211> 323
 <212> PRT
 <213> Homo sapiens

<400> 598
 60 His Leu Leu Lys Lys Arg Glu Arg Gln Arg Glu Gln Met Glu Val Leu
 1 5 10 15
 Lys Gln Arg Ile Ala Glu Glu Thr Ile Leu Lys Ser Gln Val Asp Lys
 20 25 30
 Arg Phe Ser Ala His Tyr Asp Ala Val Glu Ala Glu Leu Lys Ser Ser

35 40 45
 Thr Val Gly Leu Val Thr Leu Asn Asp Met Lys Ala Arg Gln Glu Ala
 50 55 60
 5 Leu Val Arg Glu Arg Glu Arg Gln Leu Ala Lys Arg Gln His Leu Glu
 65 70 75 80
 Glu Gln Arg Leu Gln Gln Glu Arg Gln Arg Glu Gln Glu Gln Arg Arg
 85 90 95
 Glu Arg Lys Arg Lys Ile Ser Cys Leu Ser Phe Ala Leu Asp Asp Leu
 100 105 110
 10 Asp Asp Gln Ala Asp Ala Ala Glu Ala Arg Arg Ala Gly Asn Leu Gly
 115 120 125
 Lys Asn Pro Asp Val Asp Thr Ser Phe Leu Pro Asp Arg Asp Arg Glu
 130 135 140
 Glu Glu Glu Asn Arg Leu Arg Glu Glu Leu Arg Gln Glu Trp Glu Ala
 145 150 155 160
 15 Gln Arg Glu Lys Val Lys Asp Glu Glu Met Glu Val Thr Phe Ser Tyr
 165 170 175
 Trp Asp Gly Ser Gly His Arg Arg Thr Val Arg Val Arg Lys Gly Asn
 180 185 190
 20 Thr Val Gln Gln Phe Leu Lys Lys Arg Cys Arg Gly Cys Ala Arg Thr
 195 200 205
 Ser Trp Ser Cys Ala Pro Pro Ala Trp Ser Ser Ser Cys Ser Ser Arg
 210 215 220
 Arg Thr Ser Ser Cys Arg Thr Thr Thr Pro Ser Thr Thr Ser Ser Ser
 225 230 235 240
 25 Pro Gly Pro Gly Ala Arg Ala Gly Arg Ser Ser Thr Ser Met Cys Thr
 245 250 255
 Met Thr Cys Arg Leu Val Lys Arg Arg His His Gly Glu Arg Thr Asn
 260 265 270
 30 Ser His Ala Gly Gln Arg Trp Val Leu Xaa Asn Leu Tyr Gln Glu Glu
 275 280 285
 Pro Ser Xaa Phe Xaa Pro Ala Xaa Pro Leu Gly Arg Pro Ile Asp Pro
 290 295 300
 Arg Arg Arg Lys Trp Gly Gln Ser Ser Pro Phe Arg Leu Gln Pro Gly
 305 310 315 320
 35 Leu Ala Xaa

40 <210> 599
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 599
 45 Lys Leu Pro Thr Arg Arg Pro Gly His Gly Met Ala Pro Lys Phe Pro
 1 5 10 15
 Asp Ser Val Glu Glu Leu Arg Ala Ala Gly Asn Glu Ser Phe Arg Asn
 20 25 30
 Gly Gln Tyr Ala Glu Ala Ser Ala Leu Tyr Gly Arg Ala Leu Arg Val
 35 40 45
 50 Leu Gln Ala Gln Gly Ser Ser Asp Pro Glu Glu Glu Ser Val Leu Tyr
 50 55 60
 Ser Asn Arg Ala Ala Cys His Trp Lys Asn Gly Asn Cys Arg Asp Cys
 65 70 75 80
 55 Ile Lys Asp Cys Thr Ser Ala Leu Ala Leu Val Pro Phe Ser Ile Lys
 85 90 95
 Pro Leu Leu Arg Arg Ala Ser Ala Tyr Glu Ala Leu Glu Lys Tyr Pro
 100 105 110
 60 Met Ala Tyr Val Asp Tyr Lys Thr Val Leu Gln Ile Asp Asp Asn Val
 115 120 125
 Thr Ser Ala Val Glu Gly Ile Asn Arg Met Thr Arg Ala Leu Met Asp
 130 135 140
 Ser Leu Gly Pro Glu Trp Arg Leu Lys Leu Pro Ser Phe Pro Leu Val

145 150 155 160
 Pro Val Ser Ala Gln Lys Arg Trp Asn Phe Leu Pro Ser Glu Asn His
 165 170 175
 Lys Glu Met Ala Lys Ser Lys Ser Lys Glu Thr Thr Ala Thr Lys Asn
 180 185 190
 5 Arg Val Pro Ser Ala Gly Asp Val Glu Lys Ala Arg Val Leu Lys Glu
 195 200 205
 Glu Gly Asn Glu Leu Val Lys Lys Gly Asn His Lys Lys Ala Ile Glu
 210 215 220
 10 Lys Tyr Ser Glu Ser Leu Cys Ser Asn Leu Glu Ser Ala Thr Tyr
 225 230 235 240
 Ser Asn Arg Ala Leu Cys Tyr Leu Val Leu Lys Gln Tyr Thr Glu Ala
 245 250 255
 Val Lys Asp Cys Thr Glu Ala Leu Lys Leu Asp Gly Lys Asn Val Lys
 260 265 270
 15 Ala Phe Tyr Arg Arg Ala Gln Ala His Lys Ala Leu Lys Asp Tyr Lys
 275 280 285
 Ser Ser Phe Ala Asp Ile Ser Asn Leu Leu Gln Ile Glu Pro Arg Asn
 290 295 300
 20 Gly Pro Ala Gln Lys Leu Arg Gln Glu Val Lys Gln Asn Leu His
 305 310 315

<210> 600
 <211> 195
 25 <212> PRT
 <213> Homo sapiens

<400> 600
 Leu Thr Ile Lys Met Ser Thr Ala Asp Ala Leu Asp Asp Glu Asn Thr
 1 5 10 15
 Phe Lys Ile Leu Val Ala Thr Asp Ile His Leu Gly Phe Met Glu Lys
 20 25 30
 Asp Ala Val Arg Gly Asn Asp Thr Phe Val Thr Leu Asp Glu Ile Leu
 35 35 40 45
 Arg Leu Ala Gln Glu Asn Glu Val Asp Phe Ile Leu Leu Gly Gly Asp
 50 55 60
 Leu Phe His Glu Asn Lys Pro Ser Arg Lys Thr Leu His Thr Cys Leu
 65 70 75 80
 Glu Leu Leu Arg Lys Tyr Cys Met Gly Asp Arg Pro Val Gln Phe Glu
 40 85 90 95
 Ile Leu Ser Asp Gln Ser Val Asn Phe Gly Phe Ser Lys Phe Pro Trp
 100 105 110
 Val Asn Tyr Gln Asp Gly Asn Leu Asn Ile Ser Ile Pro Val Phe Ser
 115 120 125
 45 Ile His Gly Asn His Asp Asp Pro Thr Gly Ala Asp Ala Leu Cys Ala
 130 135 140
 Leu Asp Ile Leu Ser Cys Ala Gly Phe Val Asn His Phe Gly Thr Val
 145 150 155 160
 Gln Trp Leu Trp Glu Lys Ile Asp Ile Xaa Ser Gly Phe Cys Phe Lys
 50 165 170 175
 Lys Gly Ser Pro Lys Gly Met Ala Leu Leu Leu Gly Leu Arg Xaa Pro
 180 185 190
 Phe Xaa Glu
 195

55 <210> 601
 <211> 175
 <212> PRT
 <213> Homo sapiens

60 <400> 601
 Glu Asp Gly Ala Asp Glu Ala Glu Ala Glu Ile Ile Gln Leu Leu Lys
 1 5 10 15

Arg Ala Lys Leu Ser Ile Met Lys Asp Glu Pro Glu Glu Ala Glu Leu
 20 25 30
 Ile Leu His Asp Ala Leu Arg Leu Ala Tyr Gln Thr Asp Asn Lys Lys
 35 40 45
 5 Ala Ile Thr Tyr Thr Tyr Asp Leu Met Ala Asn Leu Ala Phe Ile Arg
 50 55 60
 Gly Gln Leu Glu Asn Ala Glu Gln Leu Phe Lys Ala Thr Met Ser Tyr
 65 70 75 80
 Leu Leu Gly Gly Gly Met Lys Gln Glu Asp Asn Ala Ile Ile Glu Ile
 85 90 95
 10 Ser Leu Lys Leu Ala Ser Ile Tyr Ala Ala Gln Asn Arg Gln Glu Phe
 100 105 110
 Ala Val Ala Gly Tyr Glu Phe Cys Ile Ser Thr Leu Glu Glu Lys Ile
 115 120 125
 15 Glu Arg Glu Lys Glu Leu Ala Glu Asp Ile Met Ser Val Glu Glu Lys
 130 135 140
 Ala Asn Thr His Leu Leu Leu Gly Met Cys Leu Asp Ala Cys Ala Arg
 145 150 155 160
 Tyr Leu Leu Phe Ser Lys Gln Pro Val Thr Gly Thr Lys Asp Val
 165 170 175

<210> 602

<211> 937

<212> PRT

25 <213> Homo sapiens

<400> 602

Ala Pro Ala Ala Arg Ala Glu Gly Arg Glu Leu Arg Arg Glu Arg Thr
 1 5 10 15
 30 Gly Trp Trp Ala Ser Glu Arg Arg Gly Met Val Asp Tyr His Ala Ala
 20 25 30
 Asn Gln Ser Tyr Gln Tyr Gly Pro Ser Ser Ala Ala Met Ala Trp Arg
 35 40 45
 Arg Gly Ser Met Gly Asp Tyr Met Ala Gln Glu Asp Asp Trp Asp Arg
 50 55 60
 35 Asp Leu Leu Leu Asp Pro Ala Trp Glu Lys Gln Gln Arg Lys Thr Phe
 65 70 75 80
 Thr Ala Trp Ser Asn Ser His Leu Arg Lys Ala Gly Thr Gln Ile Glu
 85 90 95
 40 Asn Ile Asp Glu Asp Phe Arg Asp Gly Leu Lys Leu Met Leu Leu Leu
 100 105 110
 Glu Val Ile Ser Gly Glu Arg Leu Pro Lys Pro Glu Arg Gly Lys Met
 115 120 125
 Arg Val His Lys Ile Asn Asn Val Asn Lys Ala Leu Asp Phe Ile Ala
 130 135 140
 45 Ser Lys Gly Ile Lys Leu Asp Phe His Arg Ala Glu Ile Val Asp
 145 150 155 160
 Gly Asn Ala Lys Met Thr Leu Gly Met Ile Trp Thr Ile Ile Leu Arg
 165 170 175
 50 Phe Ala Ile Gln Asp Ile Ser Val Glu Glu Thr Ser Ala Lys Glu Gly
 180 185 190
 Leu Leu Leu Trp Cys Gln Arg Lys Thr Ala Pro Tyr Lys Asn Val Asn
 195 200 205
 Val Gln Asn Phe His Ile Ser Trp Lys Asp Gly Leu Ala Phe Asn Ala
 210 215 220
 55 Leu Ile His Arg His Arg Pro Glu Leu Ile Glu Tyr Asp Lys Leu Arg
 225 230 235 240
 Lys Asp Asp Pro Val Thr Asn Leu Asn Asn Ala Phe Glu Val Ala Glu
 245 250 255
 60 Lys Tyr Leu Asp Ile Pro Lys Met Leu Asp Ala Glu Asp Ile Val Asn
 260 265 270
 Thr Ala Arg Pro Asp Glu Lys Ala Ile Met Thr Tyr Val Ser Ser Phe
 275 280 285

Tyr His Ala Phe Ser Gly Ala Gln Lys Ala Glu Thr Glu Thr Ala Ala
 290 295 300
 Asn Arg Ile Cys Lys Val Leu Ala Val Asn Gln Glu Asn Cys Ser Thr
 305 310 315 320
 5 Ser Met Glu Asp Tyr Glu Lys Leu Ala Ser Asp Leu Leu Glu Trp Ile
 325 330 335
 Arg Arg Thr Ile Pro Trp Leu Glu Asp Arg Val Pro Gln Lys Thr Ile
 340 345 350
 10 Gln Glu Met Gln Gln Lys Leu Glu Asp Phe Arg Asp Tyr Arg Arg Val
 355 360 365
 His Lys Pro Pro Lys Val Gln Glu Lys Cys Gln Leu Glu Ile Asn Phe
 370 375 380
 Asn Ser Val Gln Thr Lys Leu Arg Leu Ser Asn Arg Pro Ala Phe Met
 385 390 395 400
 15 Pro Ser Glu Gly Lys Met Val Ser Asp Ile Asn Asn Gly Trp Gln His
 405 410 415
 Leu Glu Gln Ala Glu Lys Gly Tyr Glu Glu Trp Leu Leu Asn Glu Ile
 420 425 430
 20 Arg Arg Leu Glu Arg Leu Asp His Leu Ala Glu Lys Phe Arg Gln Lys
 435 440 445
 Ala Ser Ile His Glu Ala Trp Thr Asp Gly Lys Glu Ala Met Leu Lys
 450 455 460
 His Arg Asp Tyr Glu Thr Ala Thr Leu Ser Asp Ile Lys Ala Leu Ile
 465 470 475 480
 25 Arg Lys His Glu Ala Phe Glu Ser Asp Leu Ala Ala His Gln Asp Arg
 485 490 495
 Val Glu Gln Ile Ala Ala Ser Ala Gln Glu Leu Asn Glu Leu Asp Tyr
 500 505 510
 30 Tyr Asp Ser His Asn Val Asn Thr Arg Cys Gln Lys Ile Cys Asp Gln
 515 520 525
 Trp Asp Ala Leu Gly Ser Leu Thr His Ser Arg Arg Glu Ala Leu Glu
 530 535 540
 Lys Thr Glu Lys Gln Leu Glu Ala Ile Ile Asp Gln Leu His Leu Glu
 545 550 555 560
 35 Tyr Ala Lys Pro Ala Ala Pro Phe Asn Asn Trp Met Glu Ser Ala Met
 565 570 575
 Glu Asp Leu Gln Asp Met Phe Ile Val His Thr Ile Glu Glu Ile Glu
 580 585 590
 40 Gly Leu Ile Ser Ala His Asp Gln Phe Lys Ser Thr Leu Pro Asp Ala
 595 600 605
 Asp Arg Glu Arg Glu Ala Ile Leu His Pro Gln Gly Gly Gln Arg Ile
 610 615 620
 Ala Glu Ser Asn His Ile Lys Leu Ser Gly Ser Asn Pro Tyr Thr Thr
 625 630 635 640
 45 Val Thr Pro Gln Ile Ile Asn Ser Lys Trp Glu Lys Val Gln Gln Leu
 645 650 655
 Val Pro Lys Arg Asp His Ala Leu Leu Glu Glu Gln Ser Lys Gln Gln
 660 665 670
 50 Gln Ser Asn Glu His Leu Arg Arg Gln Phe Ala Ser Gln Ala Asn Val
 675 680 685
 Val Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile Ala Ile Ser Ile
 690 695 700
 Glu Met Asn Gly Thr Leu Glu Asp Gln Leu Ser His Leu Lys Gln Tyr
 705 710 715 720
 55 Glu Arg Ser Ile Val Asp Tyr Lys Pro Asn Leu Asp Leu Leu Glu Gln
 725 730 735
 Gln His Gln Leu Ile Gln Glu Ala Leu Ile Phe Asp Asn Lys His Thr
 740 745 750
 60 Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp Glu Gln Leu Leu Thr
 755 760 765
 Thr Ile Ala Arg Thr Ile Asn Glu Val Glu Asn Gln Ile Leu Thr Arg
 770 775 780
 Asp Ala Lys Gly Ile Ser Gln Glu Gln Met Gln Glu Phe Arg Ala Ser

	785				790					795					800
	Phe Asn His Phe Asp Lys Asp His Gly Gly Ala Leu Gly Arg Gly Val														
				805					810						815
5	Gln Gly Leu Pro His Gln Pro Gly Leu Arg Arg Gly Glu Arg Pro Ala														
			820					825						830	
	Gly Glu Ala Glu Phe Asn Arg Ile Met Ser Leu Val Asp Pro Asn His														
			835				840						845		
	Ser Gly Leu Val Thr Phe Gln Ala Phe Ile Asp Phe Met Ser Arg Glu														
			850			855						860			
10	Thr Thr Asp Thr Asp Thr Ala Asp Gln Val Ile Thr Ser Phe Lys Val														
					870						875				880
	Leu Ala Gly Asp Lys Asn Phe Ile Thr Ala Glu Glu Leu Arg Arg Glu														
				885					890						895
	Leu Pro Pro Asp Gln Ala Glu Tyr Cys Ile Ala Arg Met Ala Pro Tyr														
15			900					905						910	
	Gln Gly Pro Asp Gly Val Arg Gly Ala Leu Asp Tyr Lys Ser Phe Ser														
			915				920					925			
	Thr Ala Leu Tyr Gly Glu Ser Asp Leu														
		930				935									
20	<210>	603													
	<211>	1884													
	<212>	PRT													
	<213>	Homo sapiens													
25	<400>	603													
	Val Ala Gly Cys Arg Arg Arg Gly Ala Gly Asp Pro Asn Met Ala Asn														
	1			5					10					15	
30	Leu Glu Glu Ser Phe Pro Arg Gly Gly Thr Arg Lys Ile His Lys Pro														
			20				25						30		
	Glu Lys Ala Phe Gln Gln Ser Val Glu Gln Asp Asn Leu Phe Asp Ile														
			35				40					45			
	Ser Thr Glu Glu Gly Ser Thr Lys Arg Lys Lys Ser Gln Lys Gly Pro														
			50			55					60				
35	Ala Lys Thr Lys Lys Leu Lys Ile Glu Lys Arg Glu Ser Ser Lys Ser														
			65			70				75					80
	Ala Arg Glu Lys Phe Glu Ile Leu Ser Val Glu Ser Leu Cys Glu Gly														
				85					90					95	
40	Met Arg Ile Leu Gly Cys Val Lys Glu Val Asn Glu Leu Glu Leu Val														
			100					105					110		
	Ile Ser Leu Pro Asn Gly Leu Gln Gly Phe Val Gln Val Thr Glu Ile														
			115				120					125			
	Cys Asp Ala Tyr Thr Lys Lys Leu Asn Glu Gln Val Thr Gln Glu Gln														
			130			135					140				
45	Pro Leu Lys Asp Leu Leu His Leu Pro Glu Leu Phe Ser Pro Gly Met														
			145			150				155					160
	Leu Val Arg Cys Val Val Ser Ser Leu Gly Ile Thr Asp Arg Gly Lys														
				165					170					175	
50	Lys Ser Val Lys Leu Ser Leu Asn Pro Lys Asn Val Asn Arg Val Leu														
			180					1							

	290		295		300
	Thr Pro Phe Gly Leu	Thr Leu Asn Phe Leu	Thr Phe Phe Thr Gly Val		
	305	310	315		320
5	Val Asp Phe Met His Leu	Asp Pro Lys Lys Ala Gly Thr Tyr Phe Ser			
		325	330		335
	Asn Gln Ala Val Arg Ala Cys Ile Leu Cys Val His Pro Arg Thr Arg				
		340	345		350
	Val Val His Leu Ser Leu Arg Pro Ile Phe Leu Gln Pro Gly Arg Pro				
		355	360		365
10	Leu Thr Arg Leu Ser Cys Gln Asn Leu Gly Ala Val Leu Asp Asp Val				
		370	375		380
	Pro Val Gln Gly Phe Phe Lys Lys Ala Gly Ala Thr Phe Arg Leu Lys				
		385	390		395
	Asp Gly Val Leu Ala Tyr Ala Arg Leu Ser His Leu Ser Asp Ser Lys				
15		405	410		415
	Asn Val Phe Asn Pro Glu Ala Phe Lys Pro Gly Asn Thr His Lys Cys				
		420	425		430
	Arg Ile Ile Asp Tyr Ser Gln Met Asp Glu Leu Ala Leu Leu Ser Leu				
		435	440		445
20	Arg Thr Ser Ile Ile Glu Ala Gln Tyr Leu Arg Tyr His Asp Ile Glu				
		450	455		460
	Pro Gly Ala Val Val Lys Gly Thr Val Leu Thr Ile Lys Ser Tyr Gly				
		465	470		475
	Met Leu Val Lys Val Gly Glu Gln Met Arg Gly Leu Val ¹ Pro Pro Met				
25		485	490		495
	His Leu Ala Asp Ile Leu Met Lys Asn Pro Glu Lys Lys Tyr His Ile				
		500	505		510
	Gly Asp Glu Val Lys Cys Arg Val Leu Leu Cys Asp Pro Glu Ala Lys				
		515	520		525
30	Lys Leu Met Met Thr Leu Lys Lys Thr Leu Ile Glu Ser Lys Leu Pro				
		530	535		540
	Val Ile Thr Cys Tyr Ala Asp Ala Lys Pro Gly Leu Gln Thr His Gly				
		545	550		555
	Phe Ile Ile Arg Val Lys Asp Tyr Gly Cys Ile Val Lys Phe Tyr Asn				
35		565	570		575
	Asn Val Gln Gly Leu Val Pro Lys His Glu Leu Ser Thr Glu Tyr Ile				
		580	585		590
	Pro Asp Pro Glu Arg Val Phe Tyr Thr Gly Gln Val Val Lys Val Val				
		595	600		605
40	Val Leu Asn Cys Glu Pro Ser Lys Glu Arg Met Leu Leu Ser Phe Lys				
		610	615		620
	Leu Ser Ser Asp Pro Glu Pro Lys Lys Glu Pro Ala Gly His Ser Gln				
		625	630		635
	Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val Lys Val				
45		645	650		655
	Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro His Asn				
		660	665		670
	Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val Ala Asn				
		675	680		685
50	Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu His Arg				
		690	695		700
	Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys Arg Lys				
		705	710		715
	Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Asp Pro Lys Asn Phe				
55		725	730		735
	Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys Ser Ile				
		740	745		750
	Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser Gly Leu				
		755	760		765
60	Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr Ser Asp				
		770	775		780
	His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn Val Asp				
		785	790		795
					800

205

		1300		1305		1310										
	Ser	Arg	Thr	Asn	Pro	Glu	Thr	Lys	Ser	Lys	Val	Glu	Asp	Pro	Glu	Ile
		1315		1320		1325										
5	Asn	Ser	Ile	Gln	Asp	Ile	Lys	Glu	Gly	Gln	Leu	Leu	Arg	Gly	Tyr	Val
	1330			1335		1340										
	Gly	Ser	Ile	Gln	Pro	His	Gly	Val	Phe	Phe	Arg	Leu	Gly	Pro	Ser	Val
	1345			1350		1355									136	
	Val	Gly	Leu	Ala	Arg	Tyr	Ser	His	Val	Ser	Gln	His	Ser	Pro	Ser	Lys
				1365		1370									1375	
10	Lys	Ala	Leu	Tyr	Asn	Lys	His	Leu	Pro	Glu	Gly	Lys	Leu	Leu	Thr	Ala
				1380		1385									1390	
	Arg	Val	Leu	Arg	Leu	Asn	His	Gln	Lys	Asn	Leu	Val	Glu	Leu	Ser	Phe
				1395		1400									1405	
	Leu	Pro	Gly	Asp	Thr	Gly	Lys	Pro	Asp	Val	Leu	Ser	Ala	Ser	Leu	Glu
15				1410		1415									1420	
	Gly	Gln	Leu	Thr	Lys	Gln	Glu	Glu	Arg	Lys	Thr	Glu	Ala	Glu	Glu	Arg
	1425			1430		1435									144	
	Asp	Gln	Lys	Gly	Glu	Lys	Lys	Asn	Gln	Lys	Arg	Asn	Glu	Lys	Lys	Asn
				1445		1450									1455	
20	Gln	Lys	Gly	Gln	Glu	Glu	Val	Glu	Met	Pro	Ser	Lys	Glu	Lys	Gln	Gln
				1460		1465									1470	
	Pro	Gln	Lys	Pro	Gln	Ala	Gln	Lys	Arg	Gly	Gly	Arg	Glu	Cys	Arg	Glu
				1475		1480									1485	
	Ser	Gly	Ser	Glu	Gln	Glu	Arg	Val	Ser	Lys	Lys	Pro	Lys	Lys	Ala	Gly
25				1490		1495									1500	
	Leu	Ser	Glu	Glu	Asp	Asp	Ser	Leu	Val	Asp	Val	Tyr	Tyr	Arg	Glu	Gly
	1505			1510		1515									152	
	Lys	Glu	Glu	Ala	Glu	Glu	Thr	Asn	Val	Leu	Pro	Lys	Glu	Lys	Gln	Thr
				1525		1530									1535	
30	Lys	Pro	Ala	Glu	Ala	Pro	Arg	Leu	Gln	Leu	Ser	Ser	Gly	Phe	Ala	Trp
				1540		1545									1550	
	Asn	Val	Gly	Leu	Asp	Ser	Leu	Thr	Pro	Ala	Leu	Pro	Pro	Leu	Ala	Glu
				1555		1560									1565	
	Ser	Ser	Asp	Ser	Glu	Glu	Asp	Glu	Lys	Pro	His	Gln	Ala	Thr	Ile	Lys
35				1570		1575									1580	
	Lys	Ser	Lys	Lys	Glu	Arg	Glu	Leu	Glu	Lys	Gln	Lys	Ala	Glu	Lys	Glu
	1585			1590		1595									160	
	Leu	Ser	Arg	Ile	Glu	Glu	Ala	Leu	Met	Asp	Pro	Gly	Arg	Gln	Pro	Glu
				1605		1610									1615	
40	Ser	Ala	Asp	Asp	Phe	Asp	Arg	Leu	Val	Leu	Ser	Ser	Pro	Asn	Ser	Ser
				1620		1625									1630	
	Ile	Leu	Trp	Leu	Gln	Tyr	Met	Ala	Phe	His	Leu	Gln	Ala	Thr	Glu	Ile
				1635		1640									1645	
	Glu	Lys	Ala	Arg	Ala	Val	Ala	Glu	Arg	Ala	Leu	Lys	Thr	Ile	Ser	Phe
45				1650		1655									1660	
	Arg	Glu	Glu	Gln	Glu	Lys	Leu	Asn	Val	Trp	Val	Ala	Leu	Leu	Asn	Leu
	1665			1670		1675									168	
	Glu	Asn	Met	Tyr	Gly	Ser	Gln	Glu	Ser	Leu	Thr	Lys	Val	Phe	Glu	Arg
				1685		1690									1695	
50	Ala	Val	Gln	Tyr	Asn	Glu	Pro	Leu	Lys	Val	Phe	Leu	His	Leu	Ala	Asp
				1700		1705									1710	
	Ile	Tyr	Ala	Lys	Ser	Glu	Lys	Phe	Gln	Glu	Ala	Gly	Glu	Leu	Tyr	Asn
				1715		1720									1725	
	Arg	Met	Leu	Lys	Arg	Phe	Arg	Gln	Glu	Lys	Ala	Val	Trp	Ile	Lys	Tyr
55				1730		1735									1740	
	Gly	Ala	Phe	Leu	Leu	Arg	Ser	Gln	Ala	Ala	Ala	Ser	His	Arg	Val	
	1745			1750		1755									176	
	Leu	Gln	Arg	Ala	Leu	Cys	Leu	Pro	Ser	Lys	Glu	His	Val	Asp	Val	
				1765		1770									1775	
60	Ile	Ala	Lys	Phe	Ala	Gln	Leu	Glu	Phe	Gln	Leu	Gly	Asp	Ala	Glu	Arg
				1780		1785									1790	
	Ala	Lys	Ala	Ile	Phe	Glu	Asn	Thr	Leu	Ser	Thr	Tyr	Pro	Lys	Arg	Thr
				1795		1800									1805	

Asp Val Trp Ser Val Tyr Ile Asp Met Thr Ile Lys His Gly Ser Gln
 1810 1815 1820
 Lys Asp Val Arg Asp Ile Phe Glu Arg Val Ile His Leu Ser Leu Ala
 1825 1830 1835 184
 5 Pro Lys Arg Met Lys Phe Phe Phe Lys Arg Tyr Leu Asp Tyr Glu Lys
 1845 1850 1855
 Gln His Gly Thr Glu Lys Asp Val Gln Ala Val Lys Ala Lys Ala Leu
 1860 1865 1870
 10 Glu Tyr Val Glu Ala Lys Ser Ser Val Leu Glu Asp
 1875 1880

<210> 604

<211> 192

<212> PRT

15 <213> Homo sapiens

<400> 604

Asp Ala Leu Leu Arg Glu Phe Gln Glu Glu Ile Ala Arg Leu Lys Ala
 1 5 10 15
 20 Gln Leu Glu Lys Arg Ser Ile Glu Glu Lys Met Arg Leu Leu Lys Glu
 20 25 30
 Lys Glu Lys Lys Met Glu Asp Leu Arg Arg Glu Lys Asp Ala Ala Glu
 35 40 45
 25 Met Leu Gly Ala Lys Ile Lys Ala Met Glu Ser Lys Leu Leu Val Gly
 50 55 60
 Gly Lys Asn Ile Val Asp His Thr Asn Glu Gln Gln Lys Ile Leu Glu
 65 70 75 80
 Gln Lys Arg Gln Glu Ile Ala Glu Gln Lys Arg Xaa Glu Arg Glu Ile
 85 90 95
 30 Gln Gln Gln Met Glu Ser Arg Asp Glu Glu Thr Leu Glu Leu Lys Glu
 100 105 110
 Thr Tyr Ser Ser Leu Gln Gln Glu Val Asp Ile Lys Thr Lys Lys Leu
 115 120 125
 Lys Lys Leu Phe Xaa Lys Leu Gln Ala Val Lys Ala Glu Ile His Asp
 130 135 140
 35 Leu Gln Glu Glu His Xaa Lys Glu Arg Gln Glu Leu Xaa Gln Thr Gln
 145 150 155 160
 Asn Glu Leu Thr Arg Glu Leu Lys Leu Lys His Leu Ile Ile Glu Asn
 165 170 175
 40 Phe Ile Pro Leu Glu Glu Lys Ser Lys Ile Met Asn Arg Ala Phe Phe
 180 185 190

<210> 605

<211> 186

45 <212> PRT

<213> Homo sapiens

<400> 605

Lys Pro Gly Arg Glu Lys Gln Glu Gly Thr Met Ala Ser Ser Ser Gly
 1 5 10 15
 Asn Asp Asp Asp Leu Thr Ile Pro Arg Ala Ala Ile Asn Lys Met Ile
 20 25 30
 Lys Glu Thr Leu Pro Asn Val Arg Val Ala Asn Asp Ala Arg Glu Leu
 35 40 45
 55 Val Val Asn Cys Cys Thr Glu Phe Ile His Leu Ile Ser Ser Glu Ala
 50 55 60
 Asn Glu Ile Cys Asn Lys Ser Glu Lys Lys Thr Ile Ser Pro Glu His
 65 70 75 80
 Val Ile Gln Ala Leu Glu Ser Leu Gly Phe Gly Ser Tyr Ile Ser Glu
 85 90 95
 60 Val Lys Glu Val Leu Gln Glu Cys Lys Thr Val Ala Leu Lys Arg Arg
 100 105 110
 Lys Ala Ser Ser Arg Leu Glu Asn Leu Gly Ile Pro Glu Glu Glu Leu

115 120 125
 Leu Arg Gln Gln Gln Glu Leu Phe Ala Lys Ala Arg Gln Gln Gln Ala
 130 135 140
 Glu Leu Ala Gln Gln Glu Trp Leu Gln Met Gln Gln Ala Ala Gln Gln
 5 145 150 155 160
 Ala Gln Leu Ala Ala Ala Ser Ala Ser Ala Ser Asn Gln Ala Gly Ser
 165 170 175
 Ser Gln Asp Glu Glu Asp Asp Asp Asp Ile
 180 185
 10
 <210> 606
 <211> 328
 <212> PRT
 <213> Homo sapiens
 15
 <400> 606
 Glu Pro Val Val Leu Arg Phe Met Ile Phe Cys Arg Leu Leu Ala Lys
 1 5 10 15
 Met Ala Asn Asn Asp Ala Val Leu Lys Arg Leu Glu Gln Lys Gly Ala
 20 20 25 30
 Glu Ala Asp Gln Ile Ile Glu Tyr Leu Lys Gln Gln Val Ser Leu Leu
 35 40 45
 Lys Glu Lys Ala Ile Leu Gln Ala Thr Leu Arg Glu Glu Lys Lys Leu
 50 55 60
 25 Arg Val Glu Asn Ala Lys Leu Lys Lys Glu Ile Glu Glu Leu Lys Gln
 65 70 75 80
 Glu Leu Ile Gln Ala Glu Ile Gln Asn Gly Val Lys Gln Ile Ala Phe
 85 90 95
 Pro Ser Gly Thr Pro Leu His Ala Asn Ser Met Val Ser Glu Asn Val
 100 105 110
 30 Ile Gln Ser Thr Ala Val Thr Thr Val Ser Ser Gly Thr Lys Glu Gln
 115 120 125
 Ile Lys Gly Gly Thr Gly Asp Glu Lys Lys Ala Lys Glu Lys Ile Glu
 130 135 140
 35 Lys Lys Gly Glu Lys Lys Glu Lys Lys Gln Gln Ser Ile Ala Gly Ser
 145 150 155 160
 Ala Asp Ser Lys Pro Ile Asp Val Ser Arg Leu Asp Leu Arg Ile Gly
 165 170 175
 Cys Ile Ile Thr Ala Arg Lys His Pro Asp Ala Asp Ser Leu Tyr Val
 180 185 190
 40 Glu Glu Val Asp Val Gly Glu Ile Ala Pro Arg Thr Val Val Ser Gly
 195 200 205
 Leu Val Asn His Val Pro Leu Glu Gln Met Gln Asn Arg Met Val Ile
 210 215 220
 45 Leu Leu Cys Asn Leu Lys Pro Ala Lys Met Arg Gly Val Leu Ser Gln
 225 230 235 240
 Ala Met Val Met Cys Ala Ser Ser Pro Glu Lys Ile Glu Ile Leu Ala
 245 250 255
 Pro Pro Asn Gly Ser Val Pro Gly Asp Arg Ile Thr Phe Asp Ala Phe
 260 265 270
 50 Pro Gly Glu Pro Asp Lys Glu Leu Asn Pro Lys Lys Lys Ile Trp Glu
 275 280 285
 Gln Ile Gln Pro Asp Leu His Thr Asn Asp Glu Cys Val Ala Thr Tyr
 290 295 300
 55 Lys Gly Val Pro Phe Glu Val Lys Gly Lys Gly Val Cys Arg Ala Gln
 305 310 315 320
 Thr Met Ser Asn Ser Gly Ile Lys
 325
 60
 <210> 607
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 607

	Ala	Pro	Val	Arg	Glu	Ala	Ala	Arg	Ala	Arg	Gly	Arg	Arg	Ala	Gly	Trp
	1				5					10					15	
5	Gly	Ser	Ala	Ala	Gln	Cys	Gln	Arg	Gln	Arg	Gln	Thr	Arg	Ala	Pro	Arg
			20					25					30			
	Ser	Pro	Ala	Arg	Arg	Leu	Pro	Trp	Asp	Ser	Arg	Ala	Arg	Thr	Pro	Ala
		35					40					45				
10	Leu	Pro	Val	Arg	Cys	Pro	Ser	Met	Glu	Leu	Leu	Cys	Cys	Glu	Gly	Thr
	50					55						60				
	Arg	His	Ala	Pro	Arg	Ala	Gly	Pro	Asp	Pro	Arg	Leu	Leu	Gly	Asp	Gln
	65				70						75				80	
	Arg	Val	Leu	Gln	Ser	Leu	Leu	Arg	Leu	Glu	Glu	Arg	Tyr	Val	Pro	Arg
				85				90						95		
15	Ala	Ser	Tyr	Phe	Gln	Cys	Val	Gln	Arg	Glu	Ile	Lys	Pro	His	Met	Arg
			100					105					110			
	Lys	Met	Leu	Ala	Tyr	Trp	Met	Leu	Glu	Val	Cys	Glu	Glu	Gln	Arg	Cys
		115					120						125			
20	Glu	Glu	Glu	Val	Phe	Pro	Leu	Ala	Met	Asn	Tyr	Leu	Asp	Arg	Tyr	Leu
	130						135					140				
	Ser	Cys	Val	Pro	Thr	Arg	Lys	Ala	Gln	Leu	Gln	Leu	Leu	Gly	Ala	Val
	145					150					155				160	
	Cys	Met	Leu	Leu	Ala	Ser	Lys	Leu	Arg	Glu	Thr	Thr	Pro	Leu	Thr	Ile
				165					170					175		
25	Glu	Lys	Leu	Cys	Ile	Tyr	Thr	Asp	His	Ala	Val	Ser	Pro	Arg	Gln	Leu
			180					185					190			
	Arg	Asp	Trp	Glu	Val	Leu	Val	Leu	Gly	Lys	Leu	Lys	Trp	Asp	Leu	Ala
		195					200						205			
30	Ala	Val	Ile	Ala	His	Asp	Phe	Leu	Ala	Phe	Ile	Leu	His	Arg	Leu	Ser
	210					215						220				
	Leu	Pro	Arg	Asp	Arg	Gln	Ala	Leu	Val	Lys	Lys	His	Ala	Gln	Thr	Phe
	225				230						235				240	
	Leu	Ala	Leu	Cys	Ala	Thr	Asp	Tyr	Thr	Phe	Ala	Met	Tyr	Pro	Pro	Ser
				245					250					255		
35	Met	Ile	Ala	Thr	Gly	Ser	Ile	Gly	Ala	Ala	Val	Gln	Gly	Leu	Gly	Ala
			260					265						270		
	Cys	Ser	Met	Ser	Gly	Asp	Glu	Leu	Thr	Glu	Leu	Leu	Ala	Gly	Ile	Thr
		275					280						285			
40	Gly	Thr	Glu	Val	Asp	Cys	Leu	Arg	Ala	Cys	Gln	Glu	Gln	Ile	Glu	Ala
	290					295					300					
	Ala	Leu	Arg	Glu	Ser	Leu	Arg	Glu	Ala	Ser	Gln	Thr	Ser	Ser	Ser	Pro
	305					310					315				320	
	Ala	Pro	Lys	Ala	Pro	Arg	Gly	Ser	Ser	Ser	Gln	Gly	Pro	Ser	Gln	Thr
				325					330					335		
45	Ser	Thr	Pro	Thr	Asp	Val	Thr	Ala	Ile	His	Leu					
			340					345								

<210> 608

<211> 526

50 <212> PRT

<213> Homo sapiens

<400> 608

55	Ser	Gly	Ala	Ala	Ala	Lys	Met	Pro	Leu	Glu	Leu	Thr	Gln	Ser	Arg	Val
	1				5					10					15	
	Gln	Lys	Ile	Trp	Val	Pro	Val	Asp	His	Arg	Pro	Ser	Leu	Pro	Arg	Ser
			20					25					30			
	Cys	Gly	Pro	Lys	Leu	Thr	Asn	Ser	Pro	Thr	Val	Ile	Val	Met	Val	Gly
		35					40					45				
60	Leu	Pro	Ala	Arg	Gly	Lys	Thr	Tyr	Ile	Ser	Lys	Lys	Leu	Thr	Arg	Tyr
	50					55					60					
	Leu	Asn	Trp	Ile	Gly	Val	Pro	Thr	Lys	Val	Phe	Asn	Val	Gly	Glu	Tyr
	65				70					75				80		

Arg Arg Glu Ala Val Lys Gln Tyr Ser Ser Tyr Asn Phe Phe Arg Pro
 85 90 95
 Asp Asn Glu Glu Ala Met Lys Val Arg Lys Gln Cys Ala Leu Ala Ala
 100 105 110
 5 Leu Arg Asp Val Lys Ser Tyr Leu Ala Lys Glu Gly Gly Gln Ile Ala
 115 120 125
 Val Phe Asp Ala Thr Asn Thr Thr Arg Glu Arg Arg His Met Ile Leu
 130 135 140
 10 His Phe Ala Lys Glu Asn Asp Phe Lys Ala Phe Phe Ile Glu Ser Val
 145 150 155 160
 Cys Asp Asp Pro Thr Val Val Ala Ser Asn Ile Met Glu Val Lys Ile
 165 170 175
 Ser Ser Pro Asp Tyr Lys Asp Cys Asn Ser Ala Glu Ala Met Asp Asp
 180 185 190
 15 Phe Met Lys Arg Ile Ser Cys Tyr Glu Ala Ser Tyr Gln Pro Leu Asp
 195 200 205
 Pro Asp Lys Cys Asp Arg Asp Leu Ser Leu Ile Lys Val Ile Asp Val
 210 215 220
 20 Gly Arg Arg Phe Leu Val Asn Arg Val Gln Asp His Ile Gln Ser Arg
 225 230 235 240
 Ile Val Tyr Tyr Leu Met Asn Ile His Val Gln Pro Arg Thr Ile Tyr
 245 250 255
 Leu Cys Arg His Gly Glu Asn Glu His Asn Leu Gln Gly Arg Ile Gly
 260 265 270
 25 Gly Asp Ser Gly Leu Ser Ser Arg Gly Lys Lys Phe Ala Ser Ala Leu
 275 280 285
 Ser Lys Phe Val Glu Glu Gln Asn Leu Lys Asp Leu Arg Val Trp Thr
 290 295 300
 30 Ser Gln Leu Lys Ser Thr Ile Gln Thr Ala Glu Ala Leu Arg Leu Pro
 305 310 315 320
 Tyr Glu Gln Trp Lys Ala Leu Asn Glu Ile Asp Ala Gly Val Cys Glu
 325 330 335
 Glu Leu Thr Tyr Glu Glu Ile Arg Asp Thr Tyr Pro Glu Glu Tyr Ala
 340 345 350
 35 Leu Arg Glu Gln Asp Lys Tyr Tyr Arg Tyr Pro Thr Gly Glu Ser
 355 360 365
 Tyr Gln Asp Leu Val Gln Arg Leu Glu Pro Val Ile Met Glu Leu Glu
 370 375 380
 40 Arg Gln Glu Asn Val Leu Val Ile Cys His Gln Ala Val Leu Arg Cys
 385 390 395 400
 Leu Leu Ala Tyr Phe Leu Asp Lys Ser Ala Glu Glu Met Pro Tyr Leu
 405 410 415
 Lys Cys Pro Leu His Thr Val Leu Lys Leu Thr Pro Val Ala Tyr Gly
 420 425 430
 45 Cys Arg Val Glu Ser Ile Tyr Leu Asn Val Glu Ser Val Cys Thr His
 435 440 445
 Arg Glu Arg Ser Glu Asp Ala Lys Lys Gly Pro Asn Pro Leu Met Arg
 450 455 460
 50 Arg Asn Ser Val Thr Pro Leu Ala Ser Pro Glu Pro Thr Lys Lys Pro
 465 470 475 480
 Arg Ile Asn Ser Phe Glu Glu His Val Ala Ser Thr Ser Ala Ala Leu
 485 490 495
 Pro Ser Cys Leu Pro Pro Glu Val Pro Thr Gln Leu Pro Gly Gln Asn
 500 505 510
 55 Met Lys Gly Ser Arg Ser Ser Ala Asp Ser Ser Arg Lys His
 515 520 525

<210> 609

<211> 205

60 <212> PRT

<213> Homo sapiens

<400> 609

Asn Ile Ser Cys Asn Leu Leu Asn Ile Val Leu Lys Val Lys Asn Arg
 1 5 10 15
 Met Val Val Trp Glu Leu Glu Ala Leu Phe Pro Leu Leu Gln Asn Ala
 20 25 30
 5 Tyr Leu Ser Cys Ile Ile Val Lys Trp Lys Cys His Lys Leu Pro Ile
 35 40 45
 Ile His Trp Xaa Pro Leu Tyr Phe Thr Gln Leu Thr Leu Thr Trp Glu
 50 55 60
 Ile Pro His Asn His Ser Ile Arg Glu Ala Ser Xaa Ser Pro Gln Gln
 65 70 75 80
 10 Leu Arg Leu Ile Gly Leu Phe Gln Pro Gly Ile Ile Arg Ser Arg Leu
 85 90 95
 Pro Gln Ser Gln Lys Gly Glu Glu Ala Xaa Pro Val Trp Ala Pro Gly
 100 105 110
 15 Cys Leu Val Gln Pro Arg Val His Ser Trp Met Pro Arg Ser Pro Xaa
 115 120 125
 Trp Val Ser Xaa Glu Cys Ser Ala Leu Gln Gly Ala Gly Leu Val Ala
 130 135 140
 Gln Gly Pro Phe Gln Glu Phe His Ser Leu Thr Leu Val Gln Ala Ala
 145 150 155 160
 20 Ala Trp Ala Pro Pro Gly Ala Gly Ser Trp Ala Gly Arg Pro Xaa Trp
 165 170 175
 Arg Pro Met Leu Leu Lys Ala Val Asp Ala Arg Leu Phe Trp Trp Val
 180 185 190
 25 Arg Gly Leu Ala Xaa Arg Gly Asp Thr Ile Xaa Val Ser
 195 200 205

<210> 610

<211> 199

30 <212> PRT

<213> Homo sapiens

<400> 610

Val Ile Pro Ser Thr Gly Ile Lys Leu Pro Ser Ser Val Phe Ala Ser
 1 5 10 15
 Glu Phe Glu Glu Asp Val Gly Leu Leu Asn Lys Ala Ala Pro Val Ser
 20 25 30
 Gly Pro Arg Leu Asp Phe Asp Pro Asp Ile Val Ala Ala Leu Asp Asp
 35 40 45
 40 Asp Phe Asp Phe Asp Asp Pro Asp Asn Leu Leu Glu Asp Asp Phe Ile
 50 55 60
 Leu Gln Ala Asn Lys Ala Thr Gly Glu Glu Glu Gly Met Asp Ile Gln
 65 70 75 80
 Lys Ser Glu Asn Glu Asp Asp Ser Glu Trp Glu Asp Val Asp Asp Glu
 85 90 95
 45 Lys Gly Asp Ser Asn Asp Asp Tyr Asp Ser Ala Gly Leu Leu Ser Asp
 100 105 110
 Glu Asp Cys Met Ser Val Pro Gly Lys Thr His Arg Ala Ile Ala Asp
 115 120 125
 50 His Leu Phe Trp Ser Glu Glu Thr Lys Ser Arg Phe Thr Glu Tyr Ser
 130 135 140
 Met Thr Ser Ser Val Met Arg Arg Asn Glu Gln Leu Thr Leu His Asp
 145 150 155 160
 Glu Arg Phe Glu Lys Phe Tyr Glu Gln Tyr Asp Asp Asp Glu Ile Gly
 165 170 175
 55 Ala Leu Asp Asn Ala Glu Leu Glu Gly Ser Ile Gln Val Gly Gln Gln
 180 185 190
 Ser Leu Thr Gly Ser Phe Glu
 195

60

<210> 611

<211> 117

<212> PRT

<213> Homo sapiens

<400> 611

5 Ser Cys Ser Gly Ala Gly Thr Pro Arg Thr Gly Thr Arg Ser Pro Met
 1 5 10 15
 Glu Ala Trp His Ala Gly Arg Gly Asn Arg Pro Thr Pro Pro Ser Ala
 20 25 30
 Leu Ser Pro Ala Arg Lys Arg Gly Lys Asn Cys Asn Ser Ser Gly Lys
 35 40 45
 10 Leu Ser Ser Lys Ser Leu Pro Thr Ser Asp Asp Tyr Glu Leu Gly Ala
 50 55 60
 Gly Ile Arg Lys Arg His Lys Gly Pro Lys Glu Glu His Asn Ala Leu
 65 70 75 80
 Ile Gly Thr Gly Lys Ala Arg Glu Arg Asn Gln Thr Trp Asp Glu His
 85 90 95
 15 Glu Ala Ser Ser Lys Phe Ile Ser Gln Leu Lys Ile Lys Lys Lys
 100 105 110
 Met Asp Ser Asp Gln
 115

20

<210> 612

<211> 128

<212> PRT

<213> Homo sapiens

25

<400> 612

Ser Leu Leu Ala Ala Gly Ser His Met Leu Arg Glu Val Leu Asp Gly
 1 5 10 15
 Pro Val Val Gly Pro Ala Gln Glu Pro Ala Ala Pro Thr Gly Ala Glu
 20 25 30
 Ala His Asn Lys Tyr Ser Trp Met Arg Lys Lys Glu Glu Arg Met Tyr
 35 40 45
 Pro Met Lys Ser Ser Val Glu Asp Met Asp Val Leu Glu Leu Asp Phe
 50 55 60
 35 Arg Met Trp Arg Ala Glu Val Gln His Gln Tyr Lys Glu Lys Gln His
 65 70 75 80
 Glu Leu Val Lys Leu Gln Arg Arg Arg Asp Ser Glu Asp Arg His Glu
 85 90 95
 Glu Ser His Gly Ser Leu Ala Arg Arg Pro Trp Lys Gln Thr His Ala
 100 105 110
 40 Pro Glu Arg Pro Val Ala Arg Pro Gln Glu Gly Glu Glu Leu Gln Gln
 115 120 125

45

<210> 613

<211> 197

<212> PRT

<213> Homo sapiens

<400> 613

50 Ala Arg Ala Leu Glu Lys Leu Glu Ala Ala Glu Ser Leu Val Leu Glu
 1 5 10 15
 Gln Ser Phe Leu His Gly Ile Thr Leu Leu Ser Glu Ile Ala Glu Leu
 20 25 30
 Glu Leu Glu Arg Arg Ser Gln Glu Met Gly Gly Ala Glu Arg Ala Leu
 35 40 45
 55 Val Ala Arg Pro Ser Leu Glu Ser Leu Leu Ala Ala Gly Ser His Met
 50 55 60
 Leu Arg Glu Val Leu Asp Gly Pro Val Val Asp Pro Leu Lys Asn Leu
 65 70 75 80
 Arg Leu Pro Arg Glu Leu Lys Pro Asn Lys Lys Tyr Ser Trp Met Arg
 85 90 95
 60 Lys Lys Glu Glu Arg Met Tyr Ala Met Lys Ser Ser Leu Glu Asp Met
 100 105 110

Asp Ala Leu Glu Leu Asp Phe Arg Met Arg Leu Ala Glu Val Gln Arg
 115 120 125
 Gln Tyr Lys Glu Lys Gln Arg Glu Leu Val Lys Leu Gln Arg Arg Arg
 130 135 140
 5 Asp Ser Glu Asp Arg Arg Glu Glu Pro His Arg Ser Leu Ala Arg Arg
 145 150 155 160
 Gly Pro Gly Arg Pro Arg Lys Arg Thr His Ala Pro Ser Ala Leu Ser
 165 170 175
 10 Pro Pro Arg Lys Arg Gly Lys Ser Gly His Ser Ser Gly Lys Leu Ser
 180 185 190
 Ser Lys Val Ser Cys
 195

 <210> 614
 15 <211> 184
 <212> PRT
 <213> Homo sapiens

 <400> 614
 20 Leu Lys Met Asn Ser Ile Cys Leu Ile Lys Leu Gly Ile Thr Lys Ile
 1 5 10 15
 Ala Val Gln Thr Ser Ser His Thr Pro Thr Arg Gln Asn Ser Ile Tyr
 20 25 30
 25 Lys Met Phe Xaa Gly Lys Pro Xaa Pro Asn Pro Cys Pro Lys Arg Ala
 35 40 45
 Arg Thr Lys Pro Gly Val Ser Gly Trp Ala Xaa Asn Val Ser Ala Gly
 50 55 60
 Val Gly Gly Thr Arg Gly Arg Gly Arg Arg Ala Gly Arg Arg Ala Ser
 65 70 75 80
 30 Gly Xaa Lys Arg Arg Xaa Lys Ser Ser His Ile Thr Ala Gln Lys Glu
 85 90 95
 Pro Ala Gly Asp Ile Ile Thr Met Ile Gln Ser Asn Xaa Ser Lys Asn
 100 105 110
 35 Gln Asn His Ser Ala Asp Asn Ser Lys Leu Arg Cys Gln Glu Pro Ile
 115 120 125
 Trp Gln Pro Ser Cys Xaa His Ser His Gly Pro Phe Thr His His Xaa
 130 135 140
 Ser Arg Ala Pro Thr Arg Phe Pro Phe Ala Tyr Leu His Ala Phe Phe
 145 150 155 160
 40 Ala Arg Lys His Gly Arg Phe Phe Gly Phe Gly Ala Ser Asn Leu Gly
 165 170 175
 Lys Pro Phe Pro Pro Xaa Ser Cys
 180

 45 <210> 615
 <211> 188
 <212> PRT
 <213> Homo sapiens

 <400> 615
 50 Ala Arg Ala Glu Val Gln Glu Lys Lys Lys Lys Met Lys Asn Glu Asn
 1 5 10 15
 Ala Asp Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys
 20 25 30
 55 Lys Ser Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Lys Gly Gly Lys
 35 40 45
 Thr Glu Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln
 50 55 60
 Ser Pro Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys
 65 70 75 80
 60 Arg Arg Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr
 85 90 95
 Val Gln Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr

100 105 110
 Arg Lys Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr
 115 120 125
 Met Lys Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val
 130 135 140
 Val Asp Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg
 145 150 155 160
 Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp
 165 170 175
 10 Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu Val Gln
 180 185

<210> 616

<211> 129

<212> PRT

<213> Homo sapiens

<400> 616

20 Ala Arg Gly Gly Gly Gly Ala Arg Leu Arg Arg Gly Asp Ala Ser Pro
 1 5 10 15
 Val Arg Pro Arg Arg Gly Leu His Ala Pro Leu Ala Arg Ser Leu Pro
 20 25 30
 Pro Pro Ala Pro Arg Pro Ala Met Ala Glu Pro Ser Ser Ala Arg Arg
 35 40 45
 25 Pro Val Pro Leu Ile Glu Ser Glu Leu Tyr Phe Leu Ile Ala Arg Tyr
 50 55 60
 Leu Ser Ala Gly Pro Cys Arg Arg Ala Ala Gln Val Leu Val Gln Glu
 65 70 75 80
 Leu Glu Gln Tyr Gln Leu Leu Pro Lys Arg Leu Asp Trp Glu Gly Asn
 85 90 95
 30 Glu His Asn Arg Ser Tyr Xaa Glu Leu Val Leu Ser Asn Lys His Val
 100 105 110
 Ala Pro Asp His Leu Leu Gln Ile Cys Glu Arg Ile Gly Ser Tyr Val
 115 120 125
 35 Gly

<210> 617

<211> 215

<212> PRT

<213> Homo sapiens

<400> 617

45 Arg Arg Gly Arg Pro Gly Pro Gly Gly Ala Ala Leu His Ala Gly His
 1 5 10 15
 Val Gly Val Gly Pro Leu Arg Pro Pro Ala Leu His Gly Pro Gln Ala
 20 25 30
 Gly Pro Pro Gly Ala Gly Ala Leu Pro Ala Pro Gly Pro Gln Ile Arg
 35 40 45
 50 Arg Ser Gly Ala Glu Pro Arg Gly Gln Ala Val Arg Val Pro Arg Arg
 50 55 60
 Gln Thr Ala Gly Gly Ala Val Trp Gly Arg Arg His Arg Leu Leu Leu
 65 70 75 80
 Gly Gln Ala Gly Arg Asp Thr Val Trp Glu Asp Ala Arg Glu Pro Leu
 85 90 95
 55 Ala Pro Val Ala Leu Pro Gly Gly Arg Asn Pro Val Asn Tyr Gly Arg
 100 105 110
 Pro Tyr Arg Leu Ser Cys Val Glu Xaa Phe Ala Ala Thr Phe Leu His
 115 120 125
 60 Xaa Arg Leu Xaa Gln Thr Leu Leu Ser Phe Cys Cys Gly Lys Phe Lys
 130 135 140
 Trp Gly Lys Gly Leu Leu Gly Pro Glu Xaa Ala Lys Xaa Leu Asp Lys
 145 150 155 160

Xaa Pro Val Leu Xaa Xaa Pro Arg Xaa Lys Cys Phe Lys Ala Xaa Gln
 165 170 175
 Xaa Phe Leu Gly Lys Leu Pro Met Glu Lys Pro Pro Arg Xaa Glu Glu
 180 185 190
 5 Asn Arg Ile Pro Xaa Asn Val Gly Phe Lys Gly Lys Lys Ile Leu Glu
 195 200 205
 Asn Pro Lys Arg Xaa Phe Trp
 210 215

 10 <210> 618
 <211> 137
 <212> PRT
 <213> Homo sapiens

 15 <400> 618
 Pro Arg His Leu Pro Thr Arg Ser Leu Glu Ala Phe Ala Glu Glu Val
 1 5 10 15
 Gly Ala Ala Leu Gln Ala Ser Val Glu Pro Gly Ala Ala Asp Gly Glu
 20 25 30
 20 Gly Gly Pro Gly Pro Ala Ala Leu Pro Cys Thr Leu Ala Met Trp Glu
 35 40 45
 Leu Gly His Cys Asp Pro Arg Arg Cys Thr Gly Arg Lys Leu Ala Arg
 50 55 60
 Leu Gly Leu Val Arg Cys Leu Arg Leu Gly His Arg Phe Gly Gly Leu
 65 70 75 80
 25 Val Leu Ser Pro Val Gly Lys Gln Tyr Ala Ser Pro Ala Asp Arg Gln
 85 90 95
 Leu Val Ala Gln Ser Gly Val Ala Val Ile Asp Cys Ser Trp Ala Arg
 100 105 110
 30 Leu Asp Glu Thr Pro Phe Gly Lys Met Arg Gly Ser His Leu Arg Leu
 115 120 125
 Leu Pro Tyr Leu Val Ala Ala Thr Pro
 130 135

 35 <210> 619
 <211> 227
 <212> PRT
 <213> Homo sapiens

 40 <400> 619
 Gly Thr Ser Ile Tyr Ser Gly Arg Leu Leu Ser Arg Ala Asn Thr Glu
 1 5 10 15
 Lys Ser Tyr Gly Ile Asp Glu Asn Gly Arg Asp Glu Asn Thr Met Lys
 20 25 30
 45 Asn Ile Phe Ser Lys Lys Arg Lys Leu Glu Val Ala Cys Ser Asp Cys
 35 40 45
 Glu Val Glu Val Leu Pro Leu Gly Leu Glu Thr His Pro Arg Thr Ala
 50 55 60
 Lys Thr Glu Lys Cys Pro Pro Lys Phe Ser Asn Asn Pro Lys Glu Leu
 65 70 75 80
 50 Thr Met Glu Thr Lys Tyr Asp Asn Ile Ser Arg Ile Gln Tyr His Ser
 85 90 95
 Val Ile Arg Asp Pro Glu Ser Lys Thr Ala Ile Phe Gln His Asn Gly
 100 105 110
 55 Lys Lys Met Glu Phe Val Ser Ser Glu Ser Val Thr Pro Glu Asp Asn
 115 120 125
 Asp Gly Phe Lys Pro Pro Arg Glu His Leu Asn Ser Lys Thr Lys Gly
 130 135 140
 Ala Gln Lys Asp Ser Ser Asn His Val Asp Glu Phe Glu Asp Asn
 145 150 155 160
 60 Leu Leu Ile Glu Ser Asp Val Ile Asp Ile Thr Lys Tyr Arg Glu Glu
 165 170 175
 Thr Pro Pro Arg Ser Arg Cys Asn Gln Ala Thr Thr Leu Asp Asn Gln

180 185 190
 Asn Ile Lys Lys Ala Ile Glu Val Gln Ile Gln Lys Pro Pro Arg Gly
 195 200 205
 Thr Ile Tyr Ser Met Ser Lys Thr Ser Xaa Tyr Phe Val Met Lys Lys
 210 215 220
 Leu Leu Lys
 225

 <210> 620
 <211> 227
 <212> PRT
 <213> Homo sapiens

 <400> 620
 15 Ile Pro Xaa Gln Pro Phe Phe Lys Pro Asn Gly Lys Lys Met Glu Phe
 1 5 10 15
 Val Ser Ser Glu Ser Val Thr Pro Glu Asp Asn Asp Gly Phe Lys Pro
 20 20 25 30
 Pro Arg Glu His Leu Asn Ser Lys Thr Lys Gly Ala Gln Lys Asp Ser
 35 40 45
 Ser Ser Asn His Val Asp Glu Phe Glu Asp Asn Leu Ile Glu Ser
 50 55 60
 Asp Val Ile Asp Ile Thr Lys Tyr Arg Glu Glu Thr Pro Pro Arg Ser
 65 70 75 80
 25 Arg Cys Asn Gln Ala Thr Thr Leu Asp Asn Gln Asn Ile Lys Lys Ala
 85 90 95
 Ile Glu Val Gln Ile Gln Lys Pro Gln Glu Gly Arg Ser Thr Ala Cys
 100 105 110
 Gln Arg Gln Gln Val Phe Cys Asp Glu Glu Leu Leu Ser Glu Thr Lys
 115 120 125
 30 Asn Thr Ser Ser Asp Ser Leu Thr Lys Phe Asn Lys Gly Asn Val Phe
 130 135 140
 Leu Leu Asp Ala Thr Lys Glu Gly Asn Val Gly Arg Phe Leu Asn His
 145 150 155 160
 35 Ser Cys Cys Pro Asn Leu Leu Val Gln Asn Val Phe Val Glu Thr His
 165 170 175
 Asn Arg Asn Phe Pro Leu Val Ala Phe Phe Thr Asn Arg Tyr Val Lys
 180 185 190
 Ala Arg Thr Glu Leu Thr Trp Asp Tyr Gly Tyr Glu Ala Gly Thr Val
 195 200 205
 40 Pro Glu Lys Glu Ile Phe Cys Gln Cys Gly Val Asn Lys Cys Arg Lys
 210 215 220
 Lys Ile Leu
 225

 <210> 621
 <211> 204
 <212> PRT
 <213> Homo sapiens

 <400> 621
 Leu Asn Thr Leu Ser Thr Pro Glu Glu Lys Leu Ala Ala Leu Cys Lys
 1 5 10 15
 Lys Tyr Ala Asp Leu Leu Glu Glu Ser Arg Ser Val Gln Lys Gln Met
 20 25 30
 Lys Ile Leu Gln Lys Lys Gln Ala Gln Ile Val Lys Glu Lys Val His
 35 40 45
 Leu Gln Ser Glu His Ser Lys Ala Ile Leu Ala Arg Ser Lys Leu Glu
 50 55 60
 60 Ser Leu Cys Arg Glu Leu Gln Arg His Asn Lys Thr Leu Lys Glu Glu
 65 70 75 80
 Asn Met Gln Gln Ala Arg Glu Glu Glu Glu Arg Arg Lys Glu Ala Thr
 85 90 95

Ala His Phe Gln Ile Thr Leu Asn Glu Ile Gln Ala Gln Leu Glu Gln
 100 105 110
 His Asp Ile His Asn Ala Lys Leu Arg Gln Glu Asn Ile Glu Leu Gly
 115 120 125
 5 Glu Lys Leu Lys Lys Leu Ile Glu Gln Tyr Ala Leu Arg Glu Glu His
 130 135 140
 Ile Asp Lys Val Phe Lys His Lys Glu Leu Gln Gln Gln Leu Val Asp
 145 150 155 160
 Ala Lys Leu Gln Gln Thr Thr Gln Leu Ile Lys Glu Ala Asp Glu Lys
 10 165 170 175
 His Gln Arg Glu Arg Glu Phe Leu Leu Lys Glu Ala Thr Glu Ser Arg
 180 185 190
 His Lys Tyr Glu Gln Met Lys Gln Gln Glu Val His
 195 200
 15
 <210> 622
 <211> 187
 <212> PRT
 <213> Homo sapiens
 20
 <400> 622
 Glu Leu Gly Pro Glu Thr Arg Gly Arg Ala Val Gly Pro Arg Asn Glu
 1 5 10 15
 Ala Lys Met Leu Glu Gly Asp Leu Val Ser Lys Met Leu Arg Ala Val
 25 20 25 30
 Leu Gln Ser His Lys Asn Gly Val Ala Leu Pro Arg Leu Gln Gly Glu
 35 40 45
 Tyr Arg Ser Leu Thr Gly Asp Trp Ile Pro Phe Lys Gln Leu Gly Phe
 50 55 60
 30 Pro Thr Leu Glu Ala Tyr Leu Arg Ser Val Pro Ala Val Val Arg Ile
 65 70 75 80
 Glu Thr Ser Arg Ser Gly Glu Ile Thr Cys Tyr Ala Met Ala Cys Thr
 85 90 95
 Glu Thr Ala Arg Ile Ala Gln Leu Val Ala Arg Gln Arg Ser Ser Lys
 35 100 105 110
 Arg Lys Thr Gly Arg Gln Val Asn Cys Gln Met Arg Val Lys Lys Thr
 115 120 125
 Met Pro Phe Phe Leu Glu Gly Lys Pro Lys Ala Thr Leu Arg Gln Pro
 130 135 140
 40 Gly Phe Ala Ser Asn Phe Ser Val Gly Lys Lys Pro Asn Pro Ala Pro
 145 150 155 160
 Leu Arg Asp Lys Gly Asn Ser Ala Gly Val Lys Pro Asp Ala Glu Met
 165 170 175
 Ser Pro Tyr Met Leu His Thr Thr Leu Trp Lys
 45 180 185
 <210> 623
 <211> 141
 <212> PRT
 50 <213> Homo sapiens
 <400> 623
 Gln Trp Arg Lys Thr Lys Cys Met Leu Gln Lys Trp Lys Ile Ser Gly
 1 5 10 15
 55 Thr Gly Cys Phe Leu Lys Gly Ile Leu Thr Asn Gly Leu Val Ser Val
 20 25 30
 Tyr Glu Leu Asp Tyr Gly Lys His Glu Leu Val Asn Ile Arg Lys Val
 35 40 45
 Gln Pro Leu Val Asp Met Phe Arg Lys Leu Pro Phe Gln Ala Val Thr
 60 50 55 60
 Ala Gln Leu Ala Gly Val Lys Cys Asn Gln Trp Ser Glu Glu Ala Ser
 65 70 75 80
 Met Val Phe Arg Asn His Val Glu Lys Lys Pro Leu Val Ala Leu Val

85 90 95
 Gln Thr Val Ile Glu Asn Ala Asn Pro Trp Asp Arg Lys Val Val Val
 100 105 110
 Tyr Leu Val Asp Thr Ser Leu Pro Asp Thr Asp Thr Trp Ile His Asp
 115 120 125
 Phe Met Ser Glu Tyr Leu Ile Glu Leu Ser Lys Val Asn
 130 135 140

 <210> 624
 <211> 201
 <212> PRT
 <213> Homo sapiens

 <400> 624
 Met Val Ser Gly Asn Val Arg Val Met Ser Glu Met Leu Thr Glu Leu
 1 5 10 15
 Val Pro Thr Gln Ala Glu Pro Ala Asp Leu Glu Leu Leu Gln Glu Leu
 20 25 30
 Asn Arg Thr Cys Arg Ala Met Gln Gln Arg Val Leu Glu Leu Ile Pro
 35 40 45
 Gln Ile Ala Asn Glu Gln Leu Thr Glu Glu Leu Leu Ile Val Asn Asp
 50 55 60
 Asn Leu Asn Asn Val Phe Leu Arg His Glu Arg Phe Glu Arg Phe Arg
 65 70 75 80
 Thr Gly Gln Thr Thr Lys Ala Pro Ser Glu Ala Glu Pro Ala Ala Asp
 85 90 95
 Leu Ile Asp Met Gly Pro Asp Pro Ala Ala Thr Gly Asn Leu Ser Ser
 100 105 110
 Gln Leu Ala Gly Met Asn Leu Gly Ser Ser Ser Val Arg Ala Gly Leu
 115 120 125
 Gln Ser Leu Glu Ala Ser Gly Arg Leu Glu Asp Glu Phe Asp Met Phe
 130 135 140
 Ala Leu Thr Arg Gly Ser Ser Leu Ala Asp Gln Arg Lys Glu Val Lys
 145 150 155 160
 Tyr Glu Ala Pro Gln Ala Thr Asp Gly Leu Ala Gly Ala Leu Asp Ala
 165 170 175
 Arg Gln Gln Ser Thr Gly Arg Asp Pro Ser His Pro Gly Leu Pro His
 180 185 190
 Gly Gly His Xaa Ala Val Ala Val His
 195 200

 <210> 625
 <211> 244
 <212> PRT
 <213> Homo sapiens

 <400> 625
 Glu Ala Arg Ser Ala Ala Gln Val Ala Leu Cys Ile Gln Gln Leu Gln
 1 5 10 15
 Lys Ser Ile Ala Trp Glu Lys Ser Ile Met Lys Val Tyr Cys Gln Ile
 20 25 30
 Cys Arg Lys Gly Asp Asn Glu Glu Leu Leu Leu Leu Cys Asp Gly Cys
 35 40 45
 Asp Lys Gly Cys His Thr Tyr Cys His Arg Pro Lys Ile Thr Thr Ile
 50 55 60
 Pro Asp Gly Asp Trp Phe Cys Pro Ala Cys Ile Ala Lys Ala Ser Gly
 65 70 75 80
 Gln Thr Leu Lys Ile Lys Lys Leu His Val Lys Gly Lys Lys Thr Asn
 85 90 95
 Glu Ser Lys Lys Gly Lys Lys Val Thr Leu Thr Gly Asp Thr Glu Asp
 100 105 110
 Glu Asp Ser Ala Ser Thr Ser Ser Ser Leu Lys Arg Gly Asn Lys Asp
 115 120 125

Leu Lys Lys Arg Lys Met Glu Glu Asn Thr Ser Ile Asn Leu Ser Lys
 130 135 140
 Gln Glu Ser Phe Thr Ser Val Lys Lys Pro Lys Arg Asp Asp Ser Lys
 145 150 155 160
 5 Asp Leu Ala Leu Cys Ser Met Ile Leu Thr Glu Met Glu Thr His Glu
 165 170 175
 Asp Ala Trp Pro Phe Leu Leu Pro Val Asn Leu Lys Leu Val Pro Gly
 180 185 190
 Tyr Lys Lys Val Ile Lys Lys Pro Met Asp Phe Ser Thr Ile Arg Glu
 195 200 205
 10 Lys Leu Ser Ser Gly Gln Tyr Pro Asn Leu Glu Thr Phe Ala Leu Asp
 210 215 220
 Val Arg Leu Val Phe Asp Thr Val Lys His Leu Met Glu Asp Asp Ser
 225 230 235 240
 15 Asp Ile Gly Arg

<210> 626
 <211> 208
 20 <212> PRT
 <213> Homo sapiens

<400> 626
 25 Ala Arg Gly Lys Pro Ser Leu Val Arg Glu Thr Ser Arg Ile Thr Val
 1 5 10 15
 Leu Glu Ala Leu Arg His Pro Ile Gln Val Ser Arg Arg Leu Leu Ser
 20 25 30
 Arg Pro Gln Asp Ala Leu Glu Gly Val Val Leu Ser Pro Ser Leu Glu
 35 40 45
 30 Ala Arg Val Arg Asp Ile Ala Ile Ala Thr Arg Asn Thr Lys Lys Asn
 50 55 60
 Arg Ser Leu Tyr Arg Asn Ile Leu Met Tyr Gly Pro Pro Gly Thr Gly
 65 70 75 80
 35 Lys Thr Leu Phe Ala Lys Lys Leu Ala Leu His Ser Gly Met Asp Tyr
 85 90 95
 Ala Ile Met Thr Gly Gly Asp Val Ala Pro Met Gly Arg Glu Gly Val
 100 105 110
 Thr Ala Met His Lys Leu Phe Asp Trp Ala Asn Thr Ser Arg Arg Gly
 115 120 125
 40 Leu Leu Leu Phe Val Asp Glu Ala Asp Ala Phe Leu Arg Lys Arg Ala
 130 135 140
 Thr Glu Lys Ile Ser Glu Asp Leu Arg Ala Thr Leu Asn Ala Phe Leu
 145 150 155 160
 Tyr Arg Thr Gly Gln His Ser Asn Lys Phe Met Leu Val Leu Ala Ser
 165 170 175
 45 Asn Gln Pro Glu Gln Phe Asp Trp Ala Ile Asn Asp Arg Xaa Asn Glu
 180 185 190
 Met Val His Phe Asp Leu Xaa Arg Ala Xaa Arg Asn Gly Ser Ala Trp
 195 200 205
 50

<210> 627
 <211> 230
 <212> PRT
 55 <213> Homo sapiens

<400> 627
 Val Asn Arg Pro Gln Leu Gln Pro Gln Ala Trp Thr Gly Gln Leu Thr
 1 5 10 15
 Val Arg Pro Xaa Thr Pro Pro Pro Gly Ser Leu Leu Pro Pro Xaa Ser
 20 25 30
 60 Gly Ser Pro Val Cys Glu Xaa Ser Gly His Ala Gly His Arg Gly Lys
 35 40 45
 Gln Gly Ser Gly Cys Pro Thr Trp Val Trp Pro Trp Gln Ala Pro Pro

<400> 629
 Ala Arg Ala Glu Val Glu Lys Gln Thr Ser Leu Thr Pro Arg Glu Leu
 1 5 10 15
 5 Glu Ile Arg Arg Glu Asp Glu Tyr Arg Phe Thr Lys Leu Leu Gln
 20 25 30
 Ile Ala Gly Ile Ser Pro His Gly Asn Ala Leu Gly Ala Ser Met Gln
 35 40 45
 Gln Gln Val Asn Gln Gln Ile Pro Gln Glu Lys Arg Gly Gly Glu Val
 50 55 60
 10 Leu Asp Ser Ser His Asp Asp Ile Lys Leu Glu Lys Ser Asn Ile Leu
 65 70 75 80
 Leu Leu Gly Pro Thr Gly Ser Gly Lys Thr Leu Leu Ala Gln Thr Leu
 85 90 95
 15 Ala Lys Cys Leu Asp Val Pro Phe Ala Ile Cys Asp Cys Thr Thr Leu
 100 105 110
 Thr Gln Ala Gly Tyr Val Gly Glu Asp Ile Glu Ser Val Ile Ala Lys
 115 120 125
 Leu Leu Gln Asp Ala Asn Tyr Asn Val Glu Lys Ala Gln Gln Gly Ile
 130 135 140
 20 Val Phe Leu Asp Glu Val Asp Lys Ile Gly Ser Val Pro Gly Ile His
 145 150 155 160
 Gln Leu Arg Asp Val Gly Gly Glu Gly Val Gln Gln Gly Leu Leu Lys
 165 170 175
 25 Leu Leu Glu Gly Thr Ile Val Asn Val Pro Glu Lys Asn Ser Arg Lys
 180 185 190
 Leu Arg Gly Glu Thr Val Gln Val Asp Thr Thr Asn Ile Leu Phe Val
 195 200 205
 Ala Ser Gly Ala Phe Asn Gly Phe Arg Gln Asn His Gln Xaa Gly Gly
 210 215 220
 30 Lys Asn Glu Lys Tyr Leu Gly Phe Xaa Thr Pro Ile
 225 230 235

 <210> 630
 35 <211> 285
 <212> PRT
 <213> Homo sapiens

 <400> 630
 40 Ser Arg Ala Cys Arg Ser Thr Leu Val Asp Pro Lys Glu Asn Met Asp
 1 5 10 15
 Thr Ser Asn Thr Ser Ile Ser Lys Met Lys Arg Ser Arg Pro Thr Ser
 20 25 30
 Glu Gly Ser Asp Ile Glu Ser Thr Glu Pro Gln Lys Gln Cys Ser Lys
 35 40 45
 45 Lys Lys Lys Lys Arg Asp Arg Val Glu Ala Ser Ser Leu Pro Glu Val
 50 55 60
 Arg Thr Gly Lys Arg Lys Arg Ser Ser Ser Glu Asp Ala Glu Ser Leu
 65 70 75 80
 50 Ala Pro Arg Ser Lys Val Lys Lys Ile Ile Gln Lys Asp Ile Ile Lys
 85 90 95
 Glu Ala Ser Glu Ala Ser Lys Glu Asn Arg Asp Ile Glu Ile Ser Thr
 100 105 110
 Glu Glu Glu Lys Asp Thr Gly Asp Leu Lys Asp Ser Ser Leu Leu Lys
 115 120 125
 55 Thr Lys Arg Lys His Lys Lys Lys His Lys Glu Arg His Lys Met Gly
 130 135 140
 Glu Glu Val Ile Pro Leu Arg Val Leu Ser Lys Ser Glu Trp Met Asp
 145 150 155 160
 60 Leu Lys Lys Glu Tyr Leu Ala Leu Gln Lys Ala Ser Met Ala Ser Leu
 165 170 175
 Lys Lys Thr Ile Ser Gln Xaa Lys Ser Glu Ser Glu Met Glu Thr Asp
 180 185 190

Ser Gly Val Pro Gln Asn Thr Gly Met Lys Asn Glu Lys Thr Ala Asn
 195 200 205
 Arg Glu Thr Cys Arg Thr Gln Glu Lys Val Asn Ala Thr Gly Pro Gln
 210 215 220
 5 Phe Val Ser Gly Val Ile Val Lys Ile Ile Ser Thr Glu Pro Leu Leu
 225 230 235 240
 Ala Gly Asn Lys Ser Gly Ile Phe Gly Ser Asn Leu Arg Lys Phe Phe
 245 250 255
 Tyr Val Asp Leu Leu Glu Xaa Glu Pro Xaa Trp Pro Ala Arg Leu Lys
 260 265 270
 10 Thr Xaa Glu Asp Ala Gln Xaa Val Ile Asn Ala Phe Pro
 275 280 285

 <210> 631
 15 <211> 593
 <212> PRT
 <213> Homo sapiens

 <400> 631
 20 Leu Asp Met Ala Pro Glu Ile Asn Leu Pro Gly Pro Met Ser Leu Ile
 1 5 10 15
 Asp Asn Thr Lys Gly Gln Leu Val Val Asn Pro Glu Ala Leu Lys Ile
 20 25 30
 Leu Ser Ala Ile Thr Gln Pro Val Val Val Ala Ile Val Gly Leu
 35 40 45
 25 Tyr Arg Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys
 50 55 60
 Asn Gly Phe Ser Leu Gly Ser Thr Val Lys Ser His Thr Lys Gly Ile
 65 70 75 80
 30 Trp Met Trp Cys Val Pro His Pro Lys Lys Pro Glu His Thr Leu Val
 85 90 95
 Leu Leu Asp Thr Glu Gly Leu Gly Asp Ile Glu Lys Gly Asp Asn Glu
 100 105 110
 Asn Asp Ser Trp Ile Phe Ala Leu Ala Ile Leu Leu Ser Ser Thr Phe
 115 120 125
 35 Val Tyr Asn Ser Met Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu
 130 135 140
 His Tyr Val Thr Glu Leu Thr Asp Arg Ile Lys Ala Asn Ser Ser Pro
 145 150 155 160
 40 Gly Asn Asn Ser Val Asp Asp Ser Ala Asp Phe Val Ser Phe Phe Pro
 165 170 175
 Ala Phe Val Trp Thr Leu Arg Asp Phe Thr Leu Glu Leu Glu Val Asp
 180 185 190
 Gly Glu Pro Ile Thr Ala Asp Asp Tyr Leu Glu Leu Ser Leu Lys Leu
 195 200 205
 45 Arg Lys Gly Thr Asp Lys Lys Ser Lys Ser Phe Asn Asp Pro Arg Leu
 210 215 220
 Cys Ile Arg Lys Phe Phe Pro Lys Arg Lys Cys Phe Val Phe Asp Trp
 225 230 235 240
 50 Pro Ala Pro Lys Lys Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu
 245 250 255
 Glu Leu Asn Pro Asp Phe Ile Glu Gln Val Ala Glu Phe Cys Ser Tyr
 260 265 270
 Ile Leu Ser His Ser Asn Val Lys Thr Leu Ser Gly Gly Ile Ala Val
 275 280 285
 55 Asn Gly Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile
 290 295 300
 Ser Ser Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala
 305 310 315 320
 60 Gln Ile Glu Asn Ser Ala Ala Val Glu Lys Ala Ile Ala His Tyr Glu
 325 330 335
 Gln Gln Met Gly Gln Lys Val Gln Leu Pro Thr Glu Thr Leu Gln Glu
 340 345 350

Leu Leu Asp Leu His Arg Asp Ser Glu Arg Glu Ala Ile Glu Val Phe
 355 360 365
 Met Lys Asn Ser Phe Lys Asp Val Asp Gln Met Phe Gln Arg Lys Leu
 370 375 380
 5 Gly Ala Gln Leu Glu Ala Arg Arg Asp Asp Phe Cys Lys Gln Asn Ser
 385 390 395 400
 Lys Ala Ser Ser Asp Cys Cys Met Ala Leu Leu Gln Asp Ile Phe Gly
 405 410 415
 10 Pro Leu Glu Glu Asp Val Lys Gln Gly Thr Phe Ser Lys Pro Gly Gly
 420 425 430
 Tyr Arg Leu Phe Thr Gln Lys Leu Gln Glu Leu Lys Asn Lys Tyr Tyr
 435 440 445
 Gln Val Pro Arg Lys Gly Ile Gln Ala Lys Glu Val Leu Lys Lys Tyr
 450 455 460
 15 Leu Glu Ser Lys Glu Asp Val Ala Asp Ala Leu Leu Gln Thr Asp Gln
 465 470 475 480
 Ser Leu Ser Glu Lys Glu Lys Ala Ile Glu Val Glu Arg Ile Lys Ala
 485 490 495
 20 Glu Ser Ala Glu Ala Ala Lys Lys Met Leu Glu Glu Ile Gln Lys Lys
 500 505 510
 Asn Glu Glu Met Met Glu Gln Lys Glu Lys Ser Tyr Gln Glu His Val
 515 520 525
 Lys Gln Leu Thr Glu Lys Met Glu Arg Asp Arg Ala Gln Leu Met Ala
 530 535 540
 25 Glu Gln Glu Lys Thr Leu Ala Leu Lys Leu Gln Gln Glu Arg Leu
 545 550 555 560
 Leu Lys Glu Gly Phe Glu Asn Glu Ser Lys Arg Leu Gln Lys Asp Ile
 565 570 575
 30 Trp Asp Ile Gln Met Arg Ser Lys Ser Leu Glu Pro Ile Cys Asn Ile
 580 585 590
 Leu

35 <210> 632
 <211> 191
 <212> PRT
 <213> Homo sapiens

 <400> 632
 40 Arg Arg Pro Ala Ala Gly Leu Arg Asp Xaa Val Xaa Ser Ala Pro Arg
 1 5 10 15
 Gly Met Ala Ser Glu Gly Pro Xaa Glu Pro Glu Ser Glu Gly Ile Lys
 20 25 30
 45 Leu Ser Gly Ile Cys Gln Thr Ile Cys Pro Gln Ile Cys Arg Ala Gln
 35 40 45
 Cys Gly Met Val Arg Val Leu Arg Ser Met Cys Leu Pro Gln Leu Cys
 50 55 60
 Ser His Ile Leu Ser Val Cys Ser Gly Thr Thr Ser Asp Arg Asn Xaa
 65 70 75 80
 50 Tyr Ser Val Pro Gly Ser Gln Tyr Leu Tyr Asn Gln Pro Ser Cys Tyr
 85 90 95
 Arg Gly Phe Gln Thr Xaa Lys His Arg Asn Glu Asn Thr Cys Pro Leu
 100 105 110
 Pro Gln Glu Met Lys Ala Leu Phe Lys Lys Lys Thr Xaa Asp Glu Lys
 115 120 125
 55 Lys Thr Tyr Asp Gln Gln Lys Phe Asp Ser Glu Arg Ala Asp Gly Thr
 130 135 140
 Ile Ser Ser Glu Ile Lys Ser Ala Arg Gly Ser His His Leu Ser Ile
 145 150 155 160
 60 Tyr Ala Glu Asn Ser Leu Lys Ser Asp Gly Tyr His Lys Arg Thr Asp
 165 170 175
 Arg Lys Ser Arg Ile Ile Cys Lys Lys Trp Ile Tyr Leu Gln Thr
 180 185 190

<210> 633
 <211> 149
 <212> PRT
 5 <213> Homo sapiens

<400> 633
 Leu Gln Val Cys Leu Pro Ala Gly Gly Pro Cys Xaa Val Cys Pro Gln
 1 5 10 15
 10 Lys Val Met Xaa Leu Leu Pro Ile Phe Xaa Leu Xaa Lys Met Xaa Pro
 20 25 30
 Pro Val Xaa Arg Ala Val Val Thr Ser Pro Trp Xaa Gly Phe Thr Ser
 35 40 45
 15 Leu Leu Xaa Xaa Xaa Asn Phe Gln Thr Asn Xaa Xaa Leu Gly Asn Pro
 50 55 60
 Pro Gly Gly Leu Glu Lys Pro Xaa Gln Val Ala Val Pro Pro Pro Pro
 65 70 75 80
 Leu Pro Phe Xaa Ala Xaa Gly Glu Pro Xaa Pro Ser Ile Phe Trp Ala
 85 90 95
 20 Pro Phe Xaa Trp Gly Asn Xaa Val Gly Gly Leu Phe Xaa Ser Pro Leu
 100 105 110
 Lys Lys Xaa Gly Phe Leu Glu Xaa Pro Xaa Ile Xaa Xaa Xaa Pro Leu
 115 120 125
 25 Xaa Phe Leu Asp Gly Pro Pro Lys Phe Phe Phe Gln Xaa Phe Phe Gly
 130 135 140
 Pro Phe Phe Lys Xaa
 145

<210> 634
 30 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 634
 35 Val Asn Ser Thr Leu Thr Ile Glu Glu Phe His Ser Lys Leu Gln Glu
 1 5 10 15
 Ala Thr Asn Phe Pro Leu Arg Pro Phe Val Ile Pro Phe Leu Lys Ala
 20 25 30
 Asn Leu Pro Leu Leu Gln Arg Glu Leu Leu His Cys Ala Arg Leu Ala
 35 40 45
 40 Lys Gln Asn Pro Ala Gln Tyr Leu Ala Gln His Glu Gln Leu Leu Leu
 50 55 60
 Asp Ala Ser Thr Thr Ser Pro Val Asp Ser Ser Glu Leu Leu Leu Asp
 65 70 75 80
 45 Val Asn Glu Asn Gly Lys Arg Arg Thr Pro Asp Arg Thr Lys Glu Asn
 85 90 95
 Gly Phe Asp Arg Glu Pro Leu His Ser Glu His Pro Ser Lys Arg Pro
 100 105 110
 Cys Thr Ile Ser Pro Gly Gln Arg Tyr Lys Ser Lys
 115 120
 50

<210> 635
 <211> 187
 <212> PRT
 55 <213> Homo sapiens

<400> 635
 Arg Thr Lys Ala Lys Lys Asp Lys Ala Gln Arg Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 60 Xaa Xaa Gly Xaa Ala Pro His Ser Glu Ser Asp Leu Pro Glu Gln Glu
 20 25 30
 Glu Glu Ile Leu Gly Ser Asp Asp Asp Glu Gln Glu Asp Pro Asn Asp
 35 40 45

Tyr Cys Lys Gly Gly Tyr His Leu Val Lys Ile Gly Asp Leu Phe Asn
 50 55 60
 Gly Arg Tyr His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr
 65 70 75 80
 5 Val Trp Leu Ser Trp Asp Ile Gln Gly Lys Lys Phe Val Ala Met Lys
 85 90 95
 Xaa Val Lys Ser Ala Glu His Tyr Thr Glu Thr Ala Leu Asp Glu Ile
 100 105 110
 10 Xaa Leu Leu Lys Ser Val Arg Asn Ser Asp Pro Asn Asp Pro Asn Arg
 115 120 125
 Glu Met Val Val Gln Leu Leu Asp Asp Phe Lys Ile Ser Gly Val Asn
 130 135 140
 Gly Thr His Ile Cys Met Val Phe Glu Val Leu Gly His His Leu Leu
 145 150 155 160
 15 Lys Trp Ile Ile Lys Ser Asn Tyr Xaa Gly Leu Pro Leu Pro Cys Xaa
 165 170 175
 Lys Lys Ile Ile Xaa Xaa Val Phe Thr Gly Xaa
 180 185
 20 <210> 636
 <211> 275
 <212> PRT
 <213> Homo sapiens
 25 <400> 636
 Ser Arg Ala Cys Arg Ser Thr Leu Val Asp Pro Lys Arg Val Cys Lys
 1 5 10 15
 Gly Ile Leu Glu Tyr Leu Thr Val Ala Glu Val Val Glu Thr Met Glu
 20 25 30
 30 Asp Leu Val Thr Tyr Thr Lys Asn Leu Gly Pro Gly Met Thr Lys Met
 35 40 45
 Ala Lys Met Ile Asp Glu Arg Gln Gln Glu Leu Thr His Gln Glu His
 50 55 60
 Arg Val Met Leu Val Asn Ser Met Asn Thr Val Lys Glu Leu Leu Pro
 35 65 70 75 80
 Val Leu Ile Ser Ala Met Lys Ile Phe Val Thr Thr Lys Asn Ser Lys
 85 90 95
 Asn Gln Gly Ile Glu Glu Ala Leu Lys Asn Arg Asn Phe Thr Val Glu
 100 105 110
 40 Lys Met Ser Ala Glu Ile Asn Glu Ile Ile Arg Val Leu Gln Leu Thr
 115 120 125
 Ser Trp Asp Glu Asp Ala Trp Ala Ser Lys Asp Thr Glu Ala Met Lys
 130 135 140
 Arg Ala Leu Ala Ser Ile Asp Ser Lys Leu Asn Gln Ala Lys Gly Trp
 45 145 150 155 160
 Leu Arg Asp Pro Ser Ala Ser Pro Gly Asp Ala Gly Glu Gln Ala Ile
 165 170 175
 Arg Gln Ile Leu Asp Glu Ala Gly Lys Val Gly Glu Leu Cys Ala Gly
 180 185 190
 50 Lys Lys Arg Arg Glu Xaa Leu Gly Asn Leu Gln Asn Ala Xaa Ala Asp
 195 200 205
 Asp Cys Gln Ser Gly Leu Thr Ser Val Pro Arg Gly Gln Gly Ser Leu
 210 215 220
 Pro Xaa Gly Pro Cys Xaa Lys Ser Xaa Thr Xaa Tyr Xaa Gln Gly Leu
 55 225 230 235 240
 Gly Xaa Cys Ser Pro Ala Lys Xaa Glu Lys Ala Ser Phe Gln Ser Trp
 245 250 255
 Glu Ser Leu Ala His Xaa Lys Pro Lys His Leu Xaa Xaa Lys Xaa Thr
 260 265 270
 60 Met Leu Val
 275

<210> 637

<211> 162
 <212> PRT
 <213> Homo sapiens

5 <400> 637
 Gln Lys Leu Val Ile Glu Asn Phe Asp Asp Glu Gln Ile Trp Gln Gln
 1 5 10 15
 Leu Glu Leu Gln Asn Glu Pro Ile Leu Gln Tyr Phe Gln Asn Ala Val
 20 25 30
 10 Ser Glu Thr Ile Asn Asp Glu Asp Ile Ser Leu Leu Pro Glu Ser Glu
 35 40 45
 Glu Gln Glu Arg Glu Glu Asp Gly Ser Glu Ile Glu Ala Asp Asp Lys
 50 55 60
 Glu Asp Leu Glu Asp Leu Glu Glu Glu Glu Val Ser Asp Met Gly Asn
 15 65 70 75 80
 Asp Asp Pro Glu Met Gly Glu Arg Ala Glu Asn Ser Ser Lys Ser Asp
 85 90 95
 Leu Arg Lys Ser Pro Val Phe Ser Asp Glu Asp Ser Asp Leu Asp Phe
 100 105 110
 20 Asp Ile Ser Lys Leu Glu Gln Gln Ser Lys Val Gln Asn Lys Gly Gln
 115 120 125
 Gly Lys Pro Arg Glu Lys Ser Ile Val Asp Asp Lys Phe Phe Lys Leu
 130 135 140
 Ser Glu Met Glu Ala Tyr Leu Glu Asn Ile Glu Lys Glu Glu Glu Pro
 25 145 150 155 160
 Lys Arg

30 <210> 638
 <211> 171
 <212> PRT
 <213> Homo sapiens

 <400> 638
 35 Lys Met Ala Ala Gly Phe Lys Thr Val Glu Pro Xaa Glu Tyr Tyr Arg
 1 5 10 15
 Arg Phe Leu Lys Glu Asn Cys Arg Pro Asp Gly Arg Glu Leu Gly Glu
 20 25 30
 Phe Arg Thr Thr Thr Val Asn Ile Gly Ser Ile Ser Thr Ala Asp Gly
 40 35 40 45
 Ser Ala Leu Val Lys Leu Gly Asn Xaa Thr Xaa Ile Cys Gly Val Lys
 50 55 60
 Ala Glu Phe Ala Ala Pro Ser Thr Asp Ala Pro Asp Lys Gly Tyr Val
 65 70 75 80
 45 Val Pro Asn Val Asp Leu Pro Pro Leu Cys Ser Ser Arg Phe Arg Ser
 85 90 95
 Gly Pro Pro Gly Glu Glu Ala Gln Val Ala Ser Gln Phe Ile Ala Asp
 100 105 110
 Val Ile Glu Asn Ser Gln Ile Ile Gln Lys Glu Asp Leu Cys Ile Ser
 50 115 120 125
 Pro Gly Lys Leu Val Trp Val Leu Tyr Cys Asp Leu Ile Cys Leu Asp
 130 135 140
 Tyr Asp Gly Asn Ile Leu Asp Ala Cys Thr Phe Xaa Leu Leu Ala Ala
 145 150 155 160
 55 Leu Lys Asn Val Gln Val Ala Leu Lys Leu Leu
 165 170

60 <210> 639
 <211> 230
 <212> PRT
 <213> Homo sapiens

<400> 639

Xaa Ser Arg Ala Cys Arg Ser Thr Leu Val Asp Pro Lys Leu Lys Ala
 1 5 10 15
 Lys Asp Gln Gly Lys Pro Glu Val Gly Glu Tyr Ala Lys Leu Glu Lys
 20 25 30
 5 Ile Asn Ala Glu Gln Gln Leu Lys Ile Gln Glu Leu Gln Glu Lys Leu
 35 40 45
 Glu Lys Ala Val Lys Ala Ser Thr Glu Ala Thr Glu Leu Leu Gln Asn
 50 55 60
 Ile Arg Gln Ala Lys Glu Arg Ala Glu Arg Glu Leu Glu Lys Leu Gln
 10 65 70 75 80
 Asn Arg Glu Asp Ser Ser Glu Gly Ile Arg Lys Lys Leu Val Glu Ala
 85 90 95
 Glu Glu Arg Arg His Ser Leu Glu Asn Lys Val Lys Arg Leu Glu Thr
 100 105 110
 15 Met Glu Arg Arg Glu Asn Arg Leu Lys Asp Asp Ile Gln Thr Lys Ser
 115 120 125
 Gln Gln Ile Gln Gln Met Ala Asp Lys Ile Leu Glu Leu Glu Glu Lys
 130 135 140
 His Arg Glu Ala Gln Val Ser Ala Gln His Leu Glu Val His Leu Lys
 20 145 150 155 160
 Gln Lys Glu Gln His Tyr Glu Glu Lys Ile Lys Val Leu Asp Asn Gln
 165 170 175
 Ile Lys Lys Asp Leu Ala Asp Lys Glu Thr Leu Glu Asn Met Met Gln
 180 185 190
 25 Arg His Glu Glu Ala His Glu Xaa Gly Lys Ile Leu Gln Arg Thr
 195 200 205
 Glu Gly Asp Asp Gln Cys Tyr Gly Phe Gln Asp Gln Ile Pro Gly Thr
 210 215 220
 Xaa Asp Cys Gly Thr Val
 30 225 230

<210> 640

<211> 256

<212> PRT

35 <213> Homo sapiens

<400> 640

Phe Glu Lys Asp Ala Asp Ser Ser Glu Arg Ile Ile Ala Pro Met Arg
 1 5 10 15
 40 Trp Gly Leu Val Pro Ser Trp Phe Lys Glu Ser Asp Pro Ser Lys Leu
 20 25 30
 Gln Phe Asn Thr Thr Asn Cys Arg Ser Asp Thr Val Met Glu Lys Arg
 35 40 45
 Ser Phe Lys Val Pro Leu Gly Lys Gly Arg Arg Cys Val Val Leu Ala
 50 55 60
 45 Asp Gly Phe Tyr Glu Trp Gln Arg Cys Gln Gly Thr Asn Gln Arg Gln
 65 70 75 80
 Pro Tyr Phe Ile Tyr Phe Pro Gln Ile Lys Thr Glu Lys Ser Gly Ser
 85 90 95
 50 Ile Gly Ala Ala Asp Ser Pro Glu Asn Trp Glu Lys Val Trp Asp Asn
 100 105 110
 Trp Arg Leu Leu Thr Met Ala Gly Ile Phe Asp Cys Trp Glu Pro Pro
 115 120 125
 Glu Gly Gly Asp Val Leu Tyr Ser Tyr Thr Ile Ile Thr Val Asp Ser
 55 130 135 140
 Cys Lys Gly Leu Ser Asp Ile His His Arg Met Pro Ala Ile Leu Asp
 145 150 155 160
 Gly Glu Glu Ala Val Ser Lys Trp Leu Asp Phe Gly Glu Val Ser Thr
 165 170 175
 60 Xaa Glu Ala Leu Lys Leu Ile His Pro Thr Glu Asn Ile Thr Phe His
 180 185 190
 Ala Val Ser Ser Val Xaa Asn Asn Ser Arg Asn Asn Thr Ser Glu Cys
 195 200 205

Leu Ala Xaa Val Asp Leu Val Val Lys Xaa Glu Leu Lys Ala Ser Gly
 210 215 220
 Asn Xaa Pro Lys Asp Val Ala Met Gly Trp Xaa Gln Ser Xaa Pro Lys
 225 230 235 240
 5 Lys Glu Asp Ser Lys Thr Leu Gln Lys Glu Lys Val Arg Cys Xaa Pro
 245 250 255

<210> 641
 <211> 178
 10 <212> PRT
 <213> Homo sapiens

<400> 641
 Gln Ser Asn Ser Pro Val Leu Leu Ser Arg Leu His Phe Glu Lys Asp
 1 5 10 15
 Ala Asp Ser Ser Glu Arg Ile Ile Ala Pro Met Arg Trp Gly Leu Val
 20 25 30
 Pro Ser Trp Phe Lys Glu Ser Asp Pro Ser Lys Leu Gln Phe Asn Thr
 35 40 45
 20 Thr Asn Cys Arg Ser Asp Thr Val Met Glu Lys Arg Ser Phe Lys Val
 50 55 60
 Pro Leu Gly Lys Gly Arg Cys Val Val Leu Ala Asp Gly Phe Tyr
 65 70 75 80
 Glu Trp Gln Arg Cys Gln Gly Thr Asn Gln Arg Gln Pro Tyr Phe Ile
 85 90 95
 25 Tyr Phe Pro Gln Ile Lys Thr Glu Lys Ser Gly Ser Ile Gly Ala Ala
 100 105 110
 Asp Ser Pro Glu Asn Trp Glu Lys Val Trp Asp Asn Trp Arg Leu Leu
 115 120 125
 30 Thr Met Ala Gly Ile Phe Asp Cys Trp Glu Pro Pro Glu Gly Gly Asp
 130 135 140
 Val Leu Tyr Ser Tyr Thr Ile Ile Thr Val Asp Ser Cys Lys Gly Leu
 145 150 155 160
 Ser Asp Ile His His Arg Met Pro Ala Ile Leu Asp Gly Glu Glu Ala
 165 170 175
 35 Ser Phe

<210> 642
 40 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 642
 Ala Val Ser Val Ser Cys Ile Thr Tyr Leu Arg Gly Ile Phe Pro Glu
 1 5 10 15
 Cys Ala Tyr Gly Thr Arg Tyr Leu Asp Asp Leu Cys Val Lys Ile Leu
 20 25 30
 Arg Glu Asp Lys Asn Cys Pro Gly Ser Thr Gln Leu Val Lys Trp Met
 35 40 45
 50 Leu Gly Cys Tyr Asp Ala Leu Gln Lys Lys Tyr Leu Arg Met Val Val
 50 55 60
 Leu Ala Val Tyr Thr Asn Pro Glu Asp Pro Gln Thr Ile Ser Glu Cys
 65 70 75 80
 55 Tyr Gln Phe Lys Phe Lys Tyr Thr Asn Asn Gly Pro Leu Met Asp Phe
 85 90 95
 Ile Ser Lys Asn Gln Ser Asn Glu Ser Ser Met Leu Ser Thr Asp Thr
 100 105 110
 Lys Lys Ala Ser Ile Leu Leu Ile Arg Lys Ile Tyr Ile Leu Met Gln
 115 120 125
 60 Asn Leu Gly Pro Leu Pro Asn Asp Val Cys Leu Thr Met Lys Leu Phe
 130 135 140
 Tyr Tyr Asp Glu Val Thr Pro Asp Tyr Gln Pro Pro Gly Phe Lys

145 150 155 160
 Asp Gly Asp Cys Glu Gly Val Ile Phe Glu Gly Glu Pro Met Tyr Leu
 165 170 175
 5 Asn Val Gly Glu Val Ser Thr Pro Phe His Ile Phe Lys Val Lys Val
 180 185 190
 Thr Thr Glu Arg Glu Arg Met Glu Asn Ile Asp Ser Thr Xaa Leu Ser
 195 200 205
 Pro Lys Gln Ile Lys Thr Pro Phe Gln Lys Ile Leu Arg Asp Lys Asp
 210 215 220
 10 Val Xaa Xaa Glu Gln Asp Xaa Tyr Ile Ser Gly
 225 230 235

 <210> 643
 <211> 301
 15 <212> PRT
 <213> Homo sapiens

 <400> 643
 20 Thr Xaa Leu Ala Arg Xaa Gln Val Asp Thr Ser Gly Ser Lys Ala Met
 1 5 10 15
 Met Leu Pro Val Leu Thr His His Ile Arg Tyr His Gln Cys Leu Met
 20 25 30
 His Leu Asp Lys Leu Ile Gly Tyr Thr Phe Gln Asp Arg Cys Leu Leu
 35 40 45
 25 Gln Leu Ala Met Thr His Pro Ser His His Leu Asn Phe Gly Met Asn
 50 55 60
 Pro Asp His Ala Arg Asn Ser Leu Ser Asn Cys Gly Ile Arg Gln Pro
 65 70 75 80
 30 Lys Tyr Gly Asp Arg Lys Val His His Met His Met Arg Lys Lys Gly
 85 90 95
 Ile Asn Thr Leu Ile Asn Ile Met Ser Arg Leu Gly Gln Asp Asp Pro
 100 105 110
 Thr Pro Ser Arg Ile Asn His Asn Glu Arg Leu Glu Phe Leu Gly Asp
 115 120 125
 35 Ala Val Val Glu Phe Leu Thr Ser Val His Leu Tyr Tyr Leu Phe Pro
 130 135 140
 Ser Leu Glu Glu Gly Gly Leu Ala Thr Tyr Arg Thr Ala Ile Val Gln
 145 150 155 160
 40 Asn Gln His Leu Ala Met Leu Ala Lys Lys Leu Glu Leu Asp Arg Phe
 165 170 175
 Met Leu Tyr Ala His Gly Pro Asp Leu Cys Arg Glu Ser Asp Leu Arg
 180 185 190
 His Ala Met Ala Asn Cys Phe Glu Ala Leu Ile Gly Ala Val Tyr Leu
 195 200 205
 45 Glu Gly Ser Leu Glu Glu Ala Lys Gln Leu Phe Gly Arg Leu Leu Phe
 210 215 220
 Asn Asp Pro Asp Leu Arg Glu Val Trp Leu Asn Tyr Pro Leu His Pro
 225 230 235 240
 50 Leu Gln Leu Gln Glu Pro Asn Thr Asp Arg Gln Leu Ile Gly Asn Phe
 245 250 255
 Phe Gln Phe Tyr Lys Lys Leu Thr Glu Phe Glu Arg Asn Gln Leu Gly
 260 265 270
 Val Asn Phe Leu Leu Ile Gly Ser Asp Phe Xaa Ala Xaa Gly Xaa Ser
 275 280 285
 55 His Leu Arg Asn Trp Gly Asp Leu Thr Xaa Xaa Thr Pro
 290 295 300

<210> 644
 <211> 163
 60 <212> PRT
 <213> Homo sapiens

<400> 644

Pro Ile Met Ser Xaa Xaa Thr Xaa Ser Thr Leu Val Asp Pro Lys Leu
 1 5 10 15
 Cys Leu Val Tyr Val Tyr Met Pro Asn Gly Ser Leu Leu Asp Arg Leu
 20 25 30
 5 Ser Cys Leu Asp Gly Thr Pro Pro Leu Ser Trp His Met Arg Cys Lys
 35 40 45
 Ile Ala Gln Gly Ala Ala Asn Gly Ile Asn Phe Leu His Glu Asn His
 50 55 60
 His Ile His Arg Asp Ile Lys Ser Ala Asn Ile Leu Leu Asp Glu Ala
 65 70 75 80
 10 Phe Thr Ala Lys Ile Ser Asp Phe Gly Leu Ala Arg Ala Ser Glu Lys
 85 90 95
 Phe Ala Gln Thr Val Met Thr Ser Arg Ile Val Gly Thr Thr Ala Tyr
 100 105 110
 15 Met Ala Pro Glu Ala Leu Arg Gly Glu Ile Thr Pro Lys Ser Asp Ile
 115 120 125
 Tyr Ser Phe Gly Val Val Leu Leu Glu Ile Ile Thr Gly Leu Pro Ala
 130 135 140
 Val Asp Glu His Arg Glu Pro Gln Leu Leu Leu Asp Ile Lys Arg Arg
 145 150 155 160
 20 Asn Xaa Arg

25 <210> 645
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 645
 30 Asp Tyr Arg Xaa Ile Glu Ile Thr Ile Cys Lys Asn Asp Glu Cys Val
 1 5 10 15
 Leu Glu Asp Asn Ser Gln Arg Thr Lys Trp Lys Val Ile Ser Pro Thr
 20 25 30
 35 Gly Asn Glu Ala Xaa Val Pro Xaa Val Cys Phe Leu Ile Pro Pro Pro
 35 40 45
 Asn Lys Asp Ala Ile Xaa Met Ala Ser Arg Val Glu Gln Ser Tyr Xaa
 50 55 60
 Lys Val Met Ala Leu Trp His Gln Leu His Val Asn Thr Lys Ser Leu
 65 70 75 80
 40 Xaa Ser Trp Asn Tyr Leu Arg Lys Asp Leu Asp Leu Val Gln Thr Trp
 85 90 95
 Asn Leu Glu Lys Leu Arg Ser Ser Ala Pro Gly Glu Cys His Gln Ile
 100 105 110
 45 Met Xaa Asn Leu Gln Ala His Tyr Glu Asp Phe Xaa Gln Asp Ser Arg
 115 120 125
 Asp Ser Val Leu Val Ser Val Ala Asp Arg Leu Arg Leu Glu Glu Glu
 130 135 140
 Xaa Glu Ala Cys Lys Ala Arg Phe Gln His Leu
 145 150 155

50 <210> 646
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 646
 Arg Gly Asn Xaa Gln Gly Lys Ala Xaa Ser Ser Glu Thr Lys Glu Ser
 1 5 10 15
 Thr Asp Ile Glu Lys Ala Ile Leu Glu Gln Gln Val Leu Ser Glu Glu
 20 25 30
 60 Leu Thr Thr Lys Lys Glu Gln Val Phe Glu Ala Ile Lys Thr Ser Gln
 35 40 45
 Ile Phe Leu Ala Lys His Gly His Lys Leu Ser Glu Lys Glu Lys Lys

50 55 60
 Gln Ile Ser Glu Gln Leu Asn Ala Leu Asn Lys Ala Tyr His Asp Leu
 65 70 75 80
 Cys Asp Gly Ser Ala Asn Gln Leu Gln Gln Leu Ser Gln Leu Ala
 5 85 90 95
 His Gln Thr Glu Gln Lys Glu Cys Arg Ala Val Ala Gly Val Ile Asp
 100 105 110
 Leu Gly Thr Val Glu Ile Phe Pro Ile Phe Lys Ala Met Gln Lys Gly
 115 120 125
 10 Leu Leu Asp Gln Asp Thr Gly Leu Val Leu Leu Glu Ser Gln Val Ile
 130 135 140
 Met Ser Gly Leu Ile Ala Pro Glu Thr Gly Glu Asn Leu Ser Leu Glu
 145 150 155 160
 Glu Gly Val Ala Arg Asn Leu Ile Asn Pro Gln Met Tyr Gln Gln Leu
 15 165 170 175
 Arg Glu Leu Gln Asp Ala Leu Ala Leu Ile Ser Arg Leu Thr Glu Ser
 180 185 190
 Arg Gly Pro Leu Ser Val Val Glu
 195 200
 20
 <210> 647
 <211> 169
 <212> PRT
 <213> Homo sapiens
 25
 <400> 647
 Lys Glu Gln Arg Lys Glu Asn Glu Pro Glu Ala Glu Lys Thr His Leu
 1 5 10 15
 Phe Ala Lys Gln Glu Lys Ala Phe Tyr Pro Lys Ser Phe Lys Ser Lys
 30 20 25 30
 Lys Gln Lys Pro Ser Arg Val Leu Tyr Ser Ser Thr Glu Ser Ser Asp
 35 35 40 45
 Glu Glu Ala Leu Gln Asn Lys Lys Ile Ser Thr Ser Cys Ser Val Ile
 50 55 60
 35 Pro Glu Thr Ser Asn Ser Asp Met Gln Thr Lys Lys Glu Tyr Val Val
 65 70 75 80
 Ser Gly Glu His Lys Gln Lys Gly Lys Val Lys Arg Lys Leu Lys Asn
 85 90 95
 Gln Asn Lys Asn Lys Glu Asn Gln Glu Leu Lys Gln Glu Lys Glu Gly
 40 100 105 110
 Lys Glu Asn Thr Arg Ile Thr Asn Leu Thr Val Asn Thr Gly Leu Asp
 115 120 125
 Cys Ser Glu Lys Thr Arg Glu Glu Gly Asn Phe Arg Lys Ser Phe Ser
 130 135 140
 45 Pro Lys Asp Asp Thr Ser Leu His Leu Phe His Ile Ser Thr Gly Lys
 145 150 155 160
 Ser Pro Lys His Ser Cys Gly Leu Lys
 165
 50
 <210> 648
 <211> 139
 <212> PRT
 <213> Homo sapiens
 55
 <400> 648
 Ala Phe Leu Phe Pro Ser Xaa Tyr Ala Ser Ile Tyr Val Phe Leu Met
 1 5 10 15
 Xaa Tyr Leu Xaa Tyr Pro Phe Phe Ser Xaa Gly Asn Leu Asn Phe Gln
 20 25 30
 60 Met Xaa Asp Tyr Asp Leu His Pro Leu Phe Trp His Leu Ile Phe His
 35 40 45
 Gln Ile Leu Xaa Gly Asn Leu Ser Asp Val Xaa Phe Phe Pro Tyr Ala
 50 55 60

Tyr Xaa Ile Leu Xaa Leu Asn Phe Xaa Ala Xaa Ile Gln Ile Leu Xaa
 65 70 75 80
 Tyr His Xaa Xaa Gln Xaa Gln Ala Val Met Thr Phe Gln Asn Phe Leu
 85 90 95
 5 Gly Ile Asn Met Phe Xaa Tyr Val Leu Xaa Leu Gly Gly Xaa Thr Xaa
 100 105 110
 Phe His Leu Ile Xaa Xaa Asn Val Trp Xaa Ile Tyr Xaa Xaa Lys Tyr
 115 120 125
 Glu Ile Asn Val Met Lys Xaa His Xaa Leu Gly
 10 130 135

<210> 649

<211> 321

<212> PRT

15 <213> Homo sapiens

<400> 649

Gly Lys Asp Leu Leu Asn Met Tyr Ile Glu Thr Glu Gly Lys Met Ile
 1 5 10 15
 20 Met Gln Asp Lys Leu Glu Lys Glu Arg Asn Asp Ala Lys Asn Ala Val
 20 25 30
 Glu Glu Tyr Val Tyr Glu Phe Arg Asp Lys Leu Cys Gly Pro Tyr Glu
 35 40 45
 25 Lys Phe Ile Cys Glu Gln Asp His Gln Asn Phe Leu Arg Leu Leu Thr
 50 55 60
 Glu Thr Glu Asp Trp Leu Tyr Glu Glu Gly Glu Asp Gln Ala Lys Gln
 65 70 75 80
 Ala Tyr Val Asp Lys Leu Glu Glu Leu Met Lys Ile Gly Thr Pro Val
 85 90 95
 30 Lys Val Arg Phe Gln Glu Ala Glu Glu Arg Pro Lys Met Phe Glu Glu
 100 105 110
 Leu Gly Gln Arg Leu Gln His Tyr Ala Lys Ile Ala Ala Asp Phe Arg
 115 120 125
 Asn Lys Asp Glu Lys Tyr Asn His Ile Asp Glu Ser Glu Met Lys Lys
 130 135 140
 35 Val Glu Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu Glu Leu Met Lys
 145 150 155 160
 Ile Gly Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Glu Arg Pro
 165 170 175
 40 Lys Met Phe Glu Glu Leu Gly Gln Arg Leu Gln His Tyr Ala Lys Ile
 180 185 190
 Ala Ala Asp Phe Arg Asn Lys Asp Glu Lys Tyr Asn His Ile Asp Glu
 195 200 205
 45 Ser Glu Met Lys Lys Val Glu Lys Ser Val Asn Glu Val Met Glu Trp
 210 215 220
 Met Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln Asp
 225 230 235 240
 Pro Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu Asn
 245 250 255
 50 Asn Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu Ser
 260 265 270
 Pro Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys Glu
 275 280 285
 Glu Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His Gln
 290 295 300
 55 Asn Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp Leu
 305 310 315 320
 Asp

60

<210> 650

<211> 188

<212> PRT

<213> Homo sapiens

<400> 650

5 Cys Ala Ile Leu Ser Pro Ala Phe Lys Val Arg Glu Phe Ser Val Thr
 1 5 10 15
 Asp Ala Val Pro Phe Pro Ile Ser Leu Ile Trp Asn His Asp Ser Glu
 20 25 30
 Asp Thr Glu Gly Val His Glu Val Phe Ser Arg Asn His Ala Ala Pro
 35 40 45
 10 Phe Ser Lys Val Leu Thr Phe Leu Arg Arg Gly Pro Phe Glu Leu Glu
 50 55 60
 Ala Phe Tyr Ser Asp Pro Gln Gly Val Pro Tyr Pro Glu Ala Lys Ile
 65 70 75 80
 Gly Arg Phe Val Val Gln Asn Val Ser Ala Gln Lys Asp Gly Glu Lys
 15 85 90 95
 Ser Arg Val Lys Val Lys Val Arg Val Asn Thr His Gly Ile Phe Thr
 100 105 110
 Ile Ser Thr Ala Ser Met Val Glu Lys Val Pro Thr Glu Asn Glu
 115 120 125
 20 Met Ser Ser Glu Ala Asp Met Glu Cys Leu Asn Gln Arg Pro Pro Glu
 130 135 140
 Asn Pro Asp Thr Asp Ala Asn Glu Lys Lys Val Asp Gln Pro Pro Glu
 145 150 155 160
 Ala Lys Lys Pro Lys Ile Lys Val Val Asn Val Glu Leu Pro Ile Glu
 25 165 170 175
 Ala Asn Leu Val Trp Gln Leu Gly Glu Arg Pro Ser
 180 185

<210> 651

<211> 174

<212> PRT

<213> Homo sapiens

<400> 651

35 Xaa Ile Xaa Lys Xaa Ile Gly Lys Xaa Xaa Xaa Gly Leu Lys Pro Val
 1 5 10 15
 Gly Asn Leu Val Xaa Val Xaa Xaa Xaa Leu Xaa Gly Xaa Tyr Glu Lys
 20 25 30
 Phe Ile Cys Glu Xaa Val Phe Lys Xaa Xaa Asp Asp Ala Xaa Gln Xaa
 35 40 45
 40 Leu Xaa Xaa Ala Val Ser Gly Xaa Gly Gly Xaa Ser Xaa Xaa Xaa Xaa
 50 55 60
 Arg Cys Xaa Val Ala Gly Leu Arg Xaa Xaa Gly Xaa Pro Val Lys Val
 65 70 75 80
 45 Xaa Phe Xaa Glu His Xaa Asn Gly Gln Lys Cys Phe Xaa Thr Xaa Gln
 85 90 95
 Xaa Leu Gln Xaa Tyr Pro Lys Ile Ala Ala Asp Phe Arg Asn Lys Xaa
 100 105 110
 Xaa Lys Ser Xaa Xaa Ile Asp Glu Phe Glu Met Lys Lys Val Glu Lys
 115 120 125
 50 Xaa Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala Gln
 130 135 140
 Ala Lys Xaa Ser Phe Asp Gln Asp Pro Val Xaa Arg Ala Gln Glu Ile
 145 150 155 160
 55 Lys Thr Lys Ile Lys Glu Leu Xaa Thr His Val Asn Pro Leu
 165 170

<210> 652

<211> 150

<212> PRT

<213> Homo sapiens

<400> 652

Gly Asn Ile Xaa His Ser Asp Xaa Xaa Val Xaa Xaa Gln Asn Xaa Phe
 1 5 10 15
 Trp Leu Leu Asn Leu Leu Pro Phe Xaa Gln Tyr Xaa Gly His Leu Glu
 20 25 30
 5 Phe Phe Pro Val Xaa Xaa Ile Gln Phe Leu Val Ser Xaa Gly Leu Gln
 35 40 45
 Arg Val His Met Cys Xaa Gln Phe Leu Asp Phe Cys Phe Asn Phe Leu
 50 55 60
 Ser Pro Xaa Asn Trp Ile Leu Ile Lys Thr Xaa Phe Ser Leu Ser Ile
 10 65 70 75 80
 His Asp Ile Ile His Pro Phe His His Phe Ile Asn Xaa Leu Leu His
 85 90 95
 Phe Phe His Phe Lys Leu Ile Asn Xaa Xaa Gly Phe Xaa Xaa Leu Ile
 100 105 110
 15 Ser Glu Val Ser Cys Tyr Leu Gly Ile Xaa Leu Gln Xaa Leu Xaa Ser
 115 120 125
 Xaa Lys Thr Phe Leu Ala Val Xaa Met Phe Xaa Lys Xaa Asn Phe His
 130 135 140
 Trp Xaa Ala Xaa Xaa Pro
 20 145 150

<210> 653

<211> 155

<212> PRT

25 <213> Homo sapiens

<400> 653

Ala Glu Xaa Ala Ala Leu Cys Gln Asp Ser Ser Cys Phe Arg Asn Lys
 1 5 10 15
 30 Asp Glu Lys Xaa Thr His Ile Asp Glu Xaa Glu Met Lys Lys Val Glu
 20 25 30
 Lys Ser Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala
 35 40 45
 Gln Ala Lys Lys Ser Leu Asp Gln Asp Pro Val Val Arg Ala Gln Glu
 50 55 60
 35 Ile Lys Pro Lys Ile Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val
 65 70 75 80
 Thr Xaa Pro Lys Pro Lys Ile Glu Xaa Pro Lys Leu Glu Arg Thr Pro
 85 90 95
 40 Asn Gly Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Xaa Lys Xaa
 100 105 110
 Asn Phe Gly Xaa Glu Pro Pro His Gln Asn Gly Glu Cys Tyr Pro Asn
 115 120 125
 Glu Lys Asn Ser Val Asn Met Asp Leu Asp Xaa Ile Xaa Leu Asn Trp
 45 130 135 140
 Pro Ile Pro Ser Ile Asn Lys Ile Phe Leu Pro
 145 150 155

<210> 654

50 <211> 188

<212> PRT

<213> Homo sapiens

<400> 654

Cys Ala Ile Leu Ser Pro Ala Phe Lys Val Arg Glu Phe Ser Val Thr
 1 5 10 15
 Asp Ala Val Pro Phe Pro Ile Ser Leu Ile Trp Asn His Asp Ser Glu
 20 25 30
 60 Asp Thr Glu Gly Val His Glu Val Phe Ser Arg Asn His Ala Ala Pro
 35 40 45
 Phe Ser Lys Val Leu Thr Phe Leu Arg Arg Gly Pro Phe Glu Leu Glu
 50 55 60
 Ala Phe Tyr Ser Asp Pro Gln Gly Val Pro Tyr Pro Glu Ala Lys Ile

20

<210>	655
<211>	138
<212>	PRT
<213>	Homo sapiens

```

45      <210> 656
        <211> 110
        <212> PRT
        <213> Homo sapiens

```

<210> 657

<211> 138
 <212> PRT
 <213> Homo sapiens

5 <400> 657
 Ala Glu Ala Ala Ala Leu Cys Gln Asp Ser Ser Cys Phe Arg Asn Lys
 1 5 10 15
 Asp Glu Lys Ser Pro His Ile Asp Glu Phe Glu Met Lys Lys Val Xaa
 20 25 30
 10 Lys Xaa Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala
 35 40 45
 Gln Ala Lys Xaa Ser Phe Asp Gln Asp Pro Val Val Xaa Ala Gln Glu
 50 55 60
 Ile Lys Xaa Lys Ile Lys Glu Leu Xaa Xaa Xaa Cys Glu Pro Val Val
 15 65 70 75 80
 Thr Xaa Pro Lys Xaa Lys Ile Glu Xaa Pro Xaa Leu Glu Arg Thr Xaa
 85 90 95
 Asn Gly Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Xaa Xaa Xaa
 100 105 110
 20 Xaa Phe Xaa Xaa Glu Xaa Xaa His Gln Asn Xaa Glu Cys Tyr Pro Asn
 115 120 125
 Glu Lys Asn Xaa Val Asn Met Asp Leu Asp
 130 135

25 <210> 658
 <211> 133
 <212> PRT
 <213> Homo sapiens

30 <400> 658
 Gly Lys Met Ile Met Gln Asp Lys Leu Glu Lys Glu Arg Asn Asp Ala
 1 5 10 15
 Lys Asn Ala Val Glu Glu Tyr Val Tyr Glu Phe Arg Asp Lys Leu Cys
 20 25 30
 35 Gly Pro Tyr Glu Lys Phe Ile Cys Glu Gln Asp His Gln Asn Phe Leu
 35 40 45
 Arg Leu Leu Thr Glu Thr Glu Asp Trp Leu Tyr Glu Glu Gly Glu Asp
 50 55 60
 Gln Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu Glu Leu Met Lys Ile
 40 65 70 75 80
 Gly Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Glu Arg Pro Lys
 85 90 95
 Met Phe Glu Glu Leu Gly Gln Arg Leu Gln His Tyr Ala Lys Ile Ala
 100 105 110
 45 Ala Asp Phe Arg Asn Lys Asp Glu Lys Tyr Asn His Ile Asp Glu Ser
 115 120 125
 Glu Met Lys Lys Val
 130

50 <210> 659
 <211> 118
 <212> PRT
 <213> Homo sapiens

55 <400> 659
 Phe Leu Phe Ile Asn Ile Xaa Ala Ile Trp Ser Ser Phe Gln Xaa Gly
 1 5 10 15
 Xaa Phe Asn Phe Trp Phe Arg Leu Gly Tyr Asn Gly Xaa Thr Cys Xaa
 20 25 30
 60 Gly Gln Phe Leu Asp Phe Xaa Phe Asn Phe Leu Ser Xaa Tyr Asn Trp
 35 40 45
 Ile Leu Ile Lys Thr Xaa Phe Ser Leu Ser Ile His Asp Ile Ile His
 50 55 60

Pro Phe His His Phe Ile Asn Arg Leu Xaa Xaa Phe Phe His Phe Xaa
 65 70 75 80
 Leu Ile Asn Met Xaa Gly Phe Leu Ile Leu Ile Xaa Glu Val Ser Cys
 85 90 95
 5 Xaa Leu Gly Ile Met Leu Xaa Pro Xaa Pro Ser Xaa Ser Asn Ile Leu
 100 105 110
 Gly Arg Ser Ser Ala Ser
 115
 10 <210> 660
 <211> 141
 <212> PRT
 <213> Homo sapiens
 15 <400> 660
 Xaa Thr Arg Xaa Arg Xaa Gln His Tyr Ala Lys Xaa Ala Ala Asp Phe
 1 5 10 15
 Xaa Asn Lys Asp Glu Lys Ser Xaa His Ile Asp Glu Xaa Glu Met Lys
 20 25 30
 20 Lys Xaa Xaa Lys Ser Val Asn Glu Val Met Glu Trp Met Asn Asn Val
 35 40 45
 Met Asn Ala Gln Ala Lys Xaa Ser Leu Asp Gln Asp Pro Val Val Xaa
 50 55 60
 25 Ala Gln Glu Ile Lys Xaa Lys Ile Lys Glu Leu Thr Xaa Thr Cys Xaa
 65 70 75 80
 Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu Xaa Pro Xaa Leu Glu
 85 90 95
 Arg Thr Pro Asn Gly Xaa Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu
 100 105 110
 30 Xaa Lys Xaa Asn Phe Xaa Gly Glu Pro Pro His Gln Asn Gly Glu Cys
 115 120 125
 Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp Leu Asp
 130 135 140
 35 <210> 661
 <211> 175
 <212> PRT
 <213> Homo sapiens
 40 <400> 661
 Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu Glu Leu Met Lys Ile Gly
 1 5 10 15
 Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Glu Arg Pro Lys Met
 20 25 30
 45 Phe Glu Glu Leu Gly Gln Arg Leu Gln His Tyr Ala Lys Ile Ala Ala
 35 40 45
 Asp Phe Arg Asn Lys Asp Glu Lys Tyr Asn His Ile Asp Glu Ser Glu
 50 55 60
 Met Lys Lys Val Glu Lys Ser Val Asn Glu Val Met Glu Trp Met Asn
 50 65 70 75 80
 Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln Asp Pro Val
 85 90 95
 Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu Asn Asn Thr
 100 105 110
 55 Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu Ser Pro Lys
 115 120 125
 Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys Glu Glu Asp
 130 135 140
 60 Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His Gln Asn Gly
 145 150 155 160
 Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp Leu Asp
 165 170 175

<210> 662
 <211> 120
 <212> PRT
 <213> Homo sapiens

5

<400> 662
 Glu Thr Glu Gly Lys Met Ile Met Gln Asp Lys Leu Glu Lys Glu Arg
 1 5 10 15
 Asn Asp Ala Lys Asn Ala Val Glu Glu Tyr Val Tyr Glu Phe Arg Asp
 10 20 25 30
 Lys Leu Cys Gly Pro Tyr Glu Lys Phe Ile Cys Glu Gln Asp His Gln
 35 40 45
 Asn Phe Leu Arg Leu Leu Thr Glu Thr Glu Asp Trp Leu Tyr Glu Glu
 50 55 60
 Xaa Glu Asp Gln Ala Lys Gln Xaa Xaa Val Asp Xaa Leu Glu Xaa Leu
 15 65 70 75 80
 Met Lys Xaa Xaa Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Glu
 85 90 95
 Arg Pro Lys Met Phe Glu Glu Leu Gly Gln Arg Leu Xaa His Tyr Ala
 100 105 110
 20 Lys Ile Ala Ala Asp Phe Lys Lys
 115 120

<210> 663
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 663
 Xaa Phe Gln Xaa Val Asp Xaa Xaa Leu Phe Ser Leu Val Leu Xaa Phe
 1 5 10 15
 Phe Ile Gln Pro Val Phe Ser Phe Cys Glu Glu Ser Gln Lys Ile Leu
 20 25 30
 Met Ile Leu Leu Thr Tyr Lys Phe Phe Ile Trp Ser Thr Gln Leu Val
 35 40 45
 Ser Glu Leu Ile His Ile Phe Leu Asn Cys Ile Phe Ser Ile Ile Pro
 50 55 60
 Phe Phe Phe Gln Phe Ile Leu His Tyr His Leu Thr Leu Cys Leu
 65 70 75

<210> 664
 <211> 97
 <212> PRT
 <213> Homo sapiens

45

<400> 664
 Met Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln Asp
 1 5 10 15
 Pro Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu Asn
 20 25 30
 Asn Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu Ser
 35 40 45
 Pro Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys Glu
 50 55 60
 Glu Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His Gln
 65 70 75 80
 Asn Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp Leu
 85 90 95
 Asp

60

<210> 665
 <211> 178

<212> PRT

<213> Homo sapiens

<400> 665

5 Glu Asp Gln Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu Glu Leu Met
 1 5 10 15
 Lys Ile Gly Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Glu Arg
 20 25 30
 Pro Lys Met Phe Glu Glu Leu Gly Gln Arg Leu Gln His Tyr Ala Lys
 35 40 45
 10 Ile Ala Ala Asp Phe Arg Asn Lys Asp Glu Lys Tyr Asn His Ile Asp
 50 55 60
 Glu Ser Glu Met Lys Lys Val Glu Lys Ser Val Asn Glu Val Met Glu
 65 70 75 80
 15 Trp Met Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln
 85 90 95
 Asp Pro Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu
 100 105 110
 Asn Asn Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu
 115 120 125
 20 Ser Pro Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys
 130 135 140
 Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His
 145 150 155 160
 25 Gln Asn Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp
 165 170 175
 Leu Asp

30

<210> 666

<211> 198

<212> PRT

<213> Homo sapiens

35

<400> 666

Gly Arg Gln Pro Glu Val Arg Ser Asp Leu Arg Arg Leu Ser Pro Ala
 1 5 10 15
 Phe Ser Gln Gly Phe Leu Ser Ala Ser Arg Arg Cys Pro Arg Gly Ser
 20 25 30
 40 Arg Arg Leu Leu Thr Gly Arg Gly Cys Leu Cys Val Leu Leu Ser Val
 35 40 45
 Arg Gly Thr Ala Arg Pro Arg Gly Pro Glu Gln Asn Ala Ala Arg Ala
 50 55 60
 Glu Ser Gly Gly Arg Arg Ser Arg Gln Gly Ala Gly Gly Arg Arg Pro
 65 70 75 80
 45 Arg Pro Glu Ala Glu Ala Asp Arg Glu Pro Ala Met Ser Val Val Gly
 85 90 95
 Leu Asp Val Gly Ser Gln Ser Cys Tyr Ile Ala Val Ala Arg Ala Gly
 100 105 110
 50 Gly Ile Glu Thr Ile Ala Asn Glu Phe Ser Asp Arg Cys Thr Pro Ser
 115 120 125
 Val Ile Ser Phe Gly Ser Lys Asn Arg Thr Ile Gly Val Ala Ala Lys
 130 135 140
 Asn Gln Gln Ile Thr His Ala Asn Asn Thr Val Ser Asn Phe Lys Arg
 145 150 155 160
 55 Phe His Gly Arg Ala Phe Asn Asp Pro Phe Ile Gln Lys Glu Lys Gly
 165 170 175
 Lys Leu Glu Leu Arg Phe Gly Ser Ile Glu Lys Trp Xaa Ser Trp Asn
 180 185 190
 60 Lys Xaa Asn Val His Gly
 195

<210> 667

<211> 100
 <212> PRT
 <213> Homo sapiens

5 <400> 667
 Thr Ser Thr Pro Thr His Met Leu Asn Gly Glu Gln Asn Ala Arg Lys
 1 5 10 15
 Leu Pro Trp Gln Glu Gln Met Leu Lys Asp Phe Asn His Ser Pro Leu
 20 25 30
 10 Glu Gln Xaa Val Gln Phe Phe Phe Ser Lys Arg Gln Lys Ser Val Ser
 35 40 45
 Ser Ser Xaa Met Gln Met Xaa Arg Leu His Arg Lys Leu Ser Met Asn
 50 55 60
 Ser Gln Phe His Arg Asn Xaa Lys Val Thr Lys Ala Ile Phe Pro Phe
 15 65 70 75 80
 Arg Xaa Ile Lys Thr Thr Asp Leu Ser Phe Phe Leu Phe Pro Tyr Asn
 85 90 95
 Xaa Gln Lys Phe
 100

20 <210> 668
 <211> 141
 <212> PRT
 <213> Homo sapiens

25 <400> 668
 Gly Arg Gln Pro Glu Val Arg Ser Asp Leu Arg Arg Leu Ser Pro Ala
 1 5 10 15
 Phe Ser Gln Gly Phe Leu Ser Ala Ser Arg Arg Cys Pro Arg Gly Ser
 30 20 25 30
 Arg Arg Leu Leu Thr Gly Arg Gly Cys Leu Cys Val Leu Leu Ser Val
 35 40 45
 Arg Gly Thr Ala Arg Pro Arg Gly Pro Glu Xaa Asn Ala Ala Arg Ala
 50 55 60
 35 Glu Ser Gly Gly Arg Arg Ser Xaa Gln Gly Ala Gly Gly Arg Arg Pro
 65 70 75 80
 Arg Pro Glu Ala Xaa Ala Asp Arg Glu Pro Ala Met Ser Val Val Gly
 85 90 95
 Leu Asp Val Gly Xaa Gln Ser Cys Tyr Ile Ala Val Ala Arg Ala Gly
 40 100 105 110
 Gly Ile Glu Thr Ile Ala Xaa Glu Phe Xaa Asp Arg Xaa Thr Pro Xaa
 115 120 125
 Val Ile Ser Phe Xaa Ser Lys Asn Ile Asn Lys Ser Glu
 130 135 140

45 <210> 669
 <211> 116
 <212> PRT
 <213> Homo sapiens

50 <400> 669
 Gln Leu Xaa Glu Pro Thr Ser Asn Pro Thr Thr Asp Met Ala Gly Ser
 1 5 10 15
 Arg Ser Xaa Ser Ala Ser Gly Leu Gly Leu Arg Pro Pro Ala Pro Cys
 55 20 25 30
 Xaa Leu Leu Leu Pro Pro Leu Ser Ala Leu Ala Ala Xaa Cys Ser Gly
 35 40 45
 Pro Arg Gly Leu Ala Val Pro Leu Thr Leu Arg Arg Thr His Arg Gln
 50 55 60
 60 Pro Arg Pro Val Arg Ser Leu Leu Leu Pro Arg Gly Gln Arg Arg Leu
 65 70 75 80
 Ala Asp Lys Lys Pro Trp Glu Lys Ala Gly Leu Ser Leu Arg Arg Ser
 85 90 95

Leu Arg Thr Ser Gly Cys Leu Pro His Ser Ala Ala Ala Arg Thr Pro
 100 105 110
 Ala Pro Ala Leu
 115

5

<210> 670
 <211> 107
 <212> PRT
 <213> Homo sapiens

10

<400> 670
 Tyr Asp Xaa Arg Gly Xaa Pro Val Xaa Glu Leu Xaa Gly Asp Gly Leu
 1 5 10 15
 Asp Ala Pro Gly Pro Gly Tyr Arg Asp Val Ala Ala Leu Xaa Ala His
 15 20 25 30
 Val Gln Pro His His Arg His Gly Arg Leu Ala Val Arg Xaa Arg Leu
 35 40 45
 Gly Ser Arg Ser Ala Ser Ser Gly Pro Leu Xaa Ala Ser Pro Ala Ala
 50 55 60
 20 Ala Phe Cys Pro Gly Arg Val Xaa Leu Arg Pro Ala Gly Ser Gly Arg
 65 70 75 80
 Ser Ser Asp Thr Gln Lys Asp Thr Gln Thr Ala Ala Ala Cys Gln Glu
 85 90 95
 Pro Pro Thr Pro Pro Gly Thr Ala Ala Gly
 25 100 105

<210> 671
 <211> 139
 <212> PRT
 <213> Homo sapiens

30

<400> 671
 Gly Asn Val Cys Lys Trp Gly Pro Val His Val Ser Val Trp Cys Ala
 1 5 10 15
 35 Cys Gly Asn Val Cys Lys Trp Ala Pro Val Arg Val Cys Gly Val Cys
 20 25 30
 Val Gly Met Cys Ala Ser Gly Arg Leu Cys Glu Cys Val Val Arg Val
 35 40 45
 Trp Glu Cys Val Gln Val Gly Ala Cys Pro Cys Glu Cys Val Val Arg
 40 50 55 60
 Val Leu Glu Cys Val Gln Val Asp Ala Cys Ala Cys Glu Cys Val Val
 65 70 75 80
 Arg Val Gly Met Cys Ala Ser Gly His Leu Cys Glu Cys Val Val Arg
 85 90 95
 45 Val Trp Glu Cys Val Gln Val Gly Thr Cys Pro Trp Glu Cys Val Val
 100 105 110
 Arg Val Trp Glu Cys Val Gln Val Gly Ala Cys Ala Cys Glu Cys Glu
 115 120 125
 Asp Thr Ser Cys Ser Gly Val Thr Asn Pro Ile
 50 130 135

<210> 672
 <211> 139
 <212> PRT
 <213> Homo sapiens

55

<400> 672
 Val Cys Gly Val His Val Gly Met Cys Ala Ser Gly Arg Leu Cys Glu
 1 5 10 15
 60 Cys Val Val Cys Val Trp Glu Cys Val Gln Val Gly Ala Cys Ala Ser
 20 25 30
 Val Trp Cys Val Cys Gly Asn Val Cys Lys Trp Ala Pro Ala His Val
 35 40 45

271

Ser Val Trp Cys Val Cys Trp Asn Val Cys Lys Trp Thr Pro Ala His
 50 55 60
 Val Ser Val Trp Cys Val Trp Glu Cys Val Gln Val Gly Thr Cys Ala
 65 70 75 80
 5 Ser Val Trp Cys Ala Cys Gly Asn Val Cys Lys Trp Ala Pro Ala His
 85 90 95
 Gly Ser Val Trp Cys Ala Cys Gly Asn Val Cys Lys Trp Glu Pro Ala
 100 105 110
 10 His Val Ser Val Arg Thr Pro Arg Ala Gln Val Ser Pro Thr Pro Phe
 115 120 125
 Lys Lys Glu Ile Thr Met Met Thr Thr Ser Leu
 130 135
 <210> 673
 <211> 134
 <212> PRT
 <213> Homo sapiens
 <400> 673
 20 His Leu Ser Thr Arg Cys Pro His Thr His Met Arg Arg Leu Pro Leu
 1 5 10 15
 Ala His Ile Pro Thr Arg Ala Pro His Thr Pro Met Gly Arg Cys Pro
 20 25 30
 25 Leu Ala His Ile Pro Thr Arg Ala Pro His Thr Arg Thr Gly Ala His
 35 40 45
 Leu His Thr Phe Pro His Ala Pro His Thr His Met Arg Arg Arg Pro
 50 55 60
 Leu Ala His Ile Pro Thr His Ala Pro His Thr His Met Gly Arg Arg
 65 70 75 80
 30 Pro Leu Ala His Ile Pro Thr His Ala Pro His Thr Arg Thr Gly Ala
 85 90 95
 His Leu His Thr Phe Pro His Thr His His Thr Leu Ala Gln Ala Pro
 100 105 110
 Thr Cys Thr His Ser His Met His Thr Thr His Ser His Ala Gln Ala
 115 120 125
 35 Pro Thr Cys Thr His Ser
 130
 <210> 674
 <211> 132
 <212> PRT
 <213> Homo sapiens
 <400> 674
 45 Ala Arg Gly Val Leu Thr Leu Thr Cys Ala Gly Ser His Leu His Thr
 1 5 10 15
 Phe Pro His Ala His His Thr Leu Pro Trp Ala Gly Ala His Leu His
 20 25 30
 50 Thr Phe Pro His Ala His His Thr Leu Ala Gln Val Pro Thr Cys Thr
 35 40 45
 His Ser His Thr His His Thr Leu Thr Cys Ala Gly Val His Leu His
 50 55 60
 Thr Phe Gln His Thr His His Thr Leu Thr Trp Ala Gly Ala His Leu
 65 70 75 80
 55 His Thr Phe Pro His Thr His His Thr Leu Ala Gln Ala Pro Thr Cys
 85 90 95
 Thr His Ser His Thr His Thr Thr His Ser His Arg Arg Pro Leu Ala
 100 105 110
 His Ile Pro Thr Cys Thr Pro His Thr His Met His Arg Pro Pro Leu
 115 120 125
 60 Ala His Ile Pro
 130

<210> 675
 <211> 138
 <212> PRT
 <213> Homo sapiens

5

<400> 675
 Met Gly Leu Val Thr Pro Glu His Glu Val Ser Ser His Ser His Ala
 1 5 10 15
 Gln Ala Pro Thr Cys Thr His Ser His Thr Arg Thr Thr His Ser His
 10 20 25 30
 Gly Gln Val Pro Thr Cys Thr His Ser His Thr Arg Thr Thr His Ser
 35 40 45
 His Arg Cys Pro Leu Ala His Ile Pro Thr Arg Thr Thr His Ser His
 50 55 60
 15 Ala Gln Ala Ser Thr Cys Thr His Ser Asn Thr Arg Thr Thr His Ser
 65 70 75 80
 His Gly Gln Ala Pro Thr Cys Thr His Ser His Thr Arg Thr Thr His
 85 90 95
 Ser His Arg Arg Pro Leu Ala His Ile Pro Thr His Thr Pro His Thr
 100 105 110
 20 Arg Thr Gly Ala His Leu His Thr Phe Pro His Ala His His Thr Leu
 115 120 125
 Thr Cys Thr Gly Pro His Leu His Thr Phe
 130 135

25

<210> 676
 <211> 96
 <212> PRT
 <213> Homo sapiens

30

<400> 676
 Met Glu Ser Lys Met Gln Glu Asn Tyr Leu Gly Arg Asn Lys Cys Leu
 1 5 10 15
 Lys Ile Leu Ile Thr Ala Leu Leu Asn Lys Gln Tyr Lys Phe Phe Phe
 20 25 30
 35 Ser Lys Arg Gln Lys Ser Val Ser Ser Ser Val Met Gln Met Xaa Arg
 35 40 45
 Leu His Arg Lys Leu Ser Met Asn Ser Gln Phe His Arg Asn Leu Lys
 50 55 60
 40 Val Thr Lys Ala Ile Phe Pro Phe Arg Ile Ile Lys Thr Thr Xaa Leu
 65 70 75 80
 Lys Leu Phe Phe Phe Phe His Ile Ile His Lys Ile Ser Lys Tyr Pro
 85 90 95

45

<210> 677
 <211> 178
 <212> PRT
 <213> Homo sapiens

50

<400> 677
 Glu Asp Gln Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu Glu Leu Met
 1 5 10 15
 Lys Ile Gly Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Glu Arg
 20 25 30
 55 Pro Lys Met Phe Glu Glu Leu Gly Gln Arg Leu Gln His Tyr Ala Lys
 35 40 45
 Ile Ala Ala Asp Phe Arg Asn Lys Asp Glu Lys Tyr Asn His Ile Asp
 50 55 60
 60 Glu Ser Glu Met Lys Lys Val Glu Lys Ser Val Asn Glu Val Met Glu
 65 70 75 80
 Trp Met Asn Asn Val Met Asn Ala Gln Ala Lys Lys Ser Leu Asp Gln
 85 90 95
 Asp Pro Val Val Arg Ala Gln Glu Ile Lys Thr Lys Ile Lys Glu Leu

100 105 110
 Asn Asn Thr Cys Glu Pro Val Val Thr Gln Pro Lys Pro Lys Ile Glu
 115 120 125
 Ser Pro Lys Leu Glu Arg Thr Pro Asn Gly Pro Asn Ile Asp Lys Lys
 5 130 135 140
 Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe Gly Ala Glu Pro Pro His
 145 150 155 160
 Gln Asn Gly Glu Cys Tyr Pro Asn Glu Lys Asn Ser Val Asn Met Asp
 165 170 175
 10 Leu Asp

<210> 678
 <211> 215
 15 <212> PRT
 <213> Homo sapiens

<400> 678
 Glu Asn Glu Met Ser Ser Glu Ala Asp Met Glu Cys Leu Asn Gln Arg
 20 1 5 10 15
 Pro Pro Glu Asn Pro Asp Thr Asp Lys Asn Val Gln Gln Asp Asn Ser
 20 25 30
 Glu Ala Gly Thr Gln Pro Gln Val Gln Thr Asp Ala Gln Gln Thr Ser
 35 40 45
 25 Gln Ser Pro Pro Ser Pro Glu Leu Thr Ser Glu Glu Asn Lys Ile Pro
 50 55 60
 Asp Ala Asp Lys Ala Asn Glu Lys Lys Val Asp Gln Pro Pro Glu Ala
 65 70 75 80
 Lys Lys Pro Lys Ile Lys Val Val Asn Val Glu Leu Pro Ile Glu Ala
 30 85 90 95
 Asn Leu Val Trp Gln Leu Gly Lys Asp Leu Leu Asn Met Tyr Ile Glu
 100 105 110
 Thr Glu Gly Lys Met Ile Met Gln Asp Lys Leu Glu Lys Glu Arg Asn
 115 120 125
 35 Asp Ala Lys Asn Ala Val Glu Tyr Val Tyr Glu Phe Arg Asp Lys
 130 135 140
 Leu Cys Gly Pro Tyr Glu Lys Phe Ile Cys Glu Gln Asp His Gln Asn
 145 150 155 160
 Phe Leu Arg Leu Leu Thr Glu Thr Glu Asp Trp Leu Tyr Glu Glu Gly
 40 165 170 175
 Glu Asp Gln Ala Lys Gln Ala Tyr Val Asp Lys Leu Glu Glu Leu Met
 180 185 190
 Lys Ile Gly Thr Pro Val Lys Val Arg Phe Gln Glu Ala Glu Arg Thr
 195 200 205
 45 Ala Gln Lys Cys Leu Lys Asn
 210 215

<210> 679
 <211> 233
 50 <212> PRT
 <213> Homo sapiens

<400> 679
 Ser Asp Pro Gln Gly Val Pro Tyr Pro Glu Ala Lys Ile Gly Arg Phe
 55 1 5 10 15
 Val Val Gln Asn Val Ser Ala Gln Lys Asp Gly Glu Lys Ser Arg Val
 20 25 30
 Lys Val Lys Val Arg Val Asn Thr His Gly Ile Phe Thr Ile Ser Thr
 35 40 45
 60 Ala Ser Met Val Glu Lys Val Pro Thr Glu Glu Asn Glu Met Ser Ser
 50 55 60
 Glu Ala Asp Met Glu Cys Leu Asn Gln Arg Pro Pro Glu Asn Pro Asp
 65 70 75 80

Thr Asp Lys Asn Val Gln Gln Asp Asn Ser Glu Ala Gly Thr Gln Pro
 85 90 95
 Gln Val Gln Thr Asp Ala Gln Gln Thr Ser Gln Ser Pro Pro Ser Pro
 100 105 110
 5 Glu Leu Thr Ser Glu Glu Asn Lys Ile Pro Asp Ala Asp Lys Ala Asn
 115 120 125
 Glu Lys Lys Val Asp Gln Pro Pro Glu Ala Lys Lys Pro Lys Ile Lys
 130 135 140
 Val Val Asn Val Glu Leu Pro Ile Glu Ala Asn Leu Val Trp Gln Leu
 10 145 150 155 160
 Gly Lys Asp Leu Leu Asn Met Tyr Ile Glu Thr Glu Gly Lys Met Ile
 165 170 175
 Met Gln Asp Lys Leu Glu Lys Glu Arg Asn Asp Ala Lys Asn Ala Val
 180 185 190
 15 Glu Glu Tyr Val Tyr Glu Phe Arg Asp Lys Leu Cys Gly Pro Tyr Glu
 195 200 205
 Lys Phe Ile Cys Glu Gln Asp His Gln Lys Phe Phe Glu Asp Ser Ser
 210 215 220
 Gln Lys Thr Gly Arg Thr Gly Leu Phe
 20 225 230

<210> 680

<211> 471

<212> PRT

25 <213> Homo sapiens

<400> 680

Leu Asp Met Ala Pro Glu Ile Asn Leu Pro Gly Pro Met Ser Leu Ile
 1 5 10 15
 30 Asp Asn Thr Lys Gly Gln Leu Val Val Asn Pro Glu Ala Leu Lys Ile
 20 25 30
 Leu Ser Ala Ile Thr Gln Pro Val Val Val Ala Ile Val Gly Leu
 35 40 45
 Tyr Arg Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys
 35 50 55 60
 Asn Gly Phe Ser Leu Gly Ser Thr Val Lys Ser His Thr Lys Gly Ile
 65 70 75 80
 Trp Met Trp Xaa Val Pro His Pro Lys Lys Pro Glu His Thr Leu Val
 85 90 95
 40 Leu Leu Asp Thr Glu Gly Leu Gly Asp Ile Glu Lys Gly Asp Asn Glu
 100 105 110
 Asn Asp Ser Trp Ile Phe Ala Leu Ala Ile Leu Leu Ser Ser Thr Phe
 115 120 125
 Val Tyr Asn Ser Met Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu
 45 130 135 140
 His Tyr Val Thr Glu Leu Thr Asp Arg Ile Lys Ala Asn Ser Ser Pro
 145 150 155 160
 Gly Asn Asn Ser Val Asp Asp Ser Ala Asp Phe Val Ser Phe Phe Pro
 165 170 175
 50 Ala Phe Val Trp Thr Leu Arg Asp Phe Thr Leu Glu Leu Glu Val Asp
 180 185 190
 Gly Glu Pro Ile Thr Ala Asp Asp Tyr Leu Glu Leu Ser Leu Lys Leu
 195 200 205
 Arg Lys Gly Thr Asp Lys Lys Ser Lys Ser Phe Asn Asp Pro Arg Leu
 55 210 215 220
 Cys Ile Arg Lys Phe Phe Pro Lys Arg Lys Cys Phe Val Phe Asp Trp
 225 230 235 240
 Pro Ala Pro Lys Lys Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu
 245 250 255
 60 Glu Leu Asn Pro Asp Phe Ile Glu Gln Val Ala Glu Phe Cys Ser Tyr
 260 265 270
 Ile Leu Ser His Ser Asn Val Lys Thr Leu Ser Gly Gly Ile Ala Val
 275 280 285

Asn Gly Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile
 290 295 300
 Ser Ser Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala
 305 310 315 320
 5 Gln Ile Glu Asn Ser Ala Ala Val Glu Lys Ala Ile Ala His Tyr Glu
 325 330 335
 Gln Gln Met Gly Gln Lys Val Gln Leu Pro Thr Glu Thr Leu Gln Glu
 340 345 350
 10 Leu Leu Asp Leu His Arg Asp Ser Glu Arg Glu Ala Ile Glu Val Phe
 355 360 365
 Met Lys Asn Ser Phe Lys Asp Val Asp Gln Met Phe Gln Arg Lys Leu
 370 375 380
 Gly Ala Gln Leu Glu Ala Arg Arg Asp Asp Phe Cys Lys Gln Asn Ser
 385 390 395 400
 15 Lys Ala Ser Ser Asp Cys Cys Met Ala Leu Leu Gln Asp Ile Phe Gly
 405 410 415
 Pro Leu Glu Glu Asp Val Lys Gln Gly Thr Phe Ser Lys Pro Gly Gly
 420 425 430
 20 Tyr Arg Leu Phe Thr Gln Lys Leu Gln Glu Leu Lys Asn Lys Ser Thr
 435 440 445
 Arg Ala Lys Glu Gly Asp Thr Gly Gln Arg Gly Ala Glu Lys Ile Phe
 450 455 460
 Gly Val Gln Gly Gly Cys Gly
 465 470
 25
 <210> 681
 <211> 198
 <212> PRT
 <213> Homo sapiens
 30
 <400> 681
 Leu Asp Met Ala Pro Glu Ile Asn Leu Pro Gly Pro Met Ser Leu Ile
 1 5 10 15
 35 Asp Asn Thr Lys Gly Gln Leu Val Val Asn Pro Glu Ala Leu Lys Ile
 20 25 30
 Leu Ser Ala Ile Thr Gln Pro Val Val Val Ala Ile Val Gly Leu
 35 40 45
 Tyr Arg Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys
 50 55 60
 40 Asn Gly Phe Ser Leu Gly Ser Thr Val Lys Ser His Thr Lys Gly Ile
 65 70 75 80
 Trp Met Trp Xaa Val Pro His Pro Lys Lys Pro Glu His Thr Leu Val
 85 90 95
 45 Leu Leu Asp Thr Glu Gly Leu Gly Asp Ile Glu Lys Gly Asp Asn Glu
 100 105 110
 Asn Asp Ser Trp Ile Phe Ala Leu Ala Ile Leu Leu Ser Ser Thr Phe
 115 120 125
 Val Tyr Asn Ser Met Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu
 130 135 140
 50 His Tyr Val Thr Glu Leu Thr Asp Arg Ile Lys Ala Asn Xaa Ser Pro
 145 150 155 160
 Gly Asn Asn Ser Val Asp Asp Ser Xaa Asp Phe Val Ser Phe Phe Pro
 165 170 175
 55 Ala Phe Val Trp Thr Leu Lys Xaa Phe Thr Leu Glu Leu Gly Ser Arg
 180 185 190
 Trp Arg Thr His His Cys
 195
 60
 <210> 682
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 682
 Ser Pro Gly Ala Lys Gly Arg Gly Tyr Lys Ala Lys Glu Val Xaa Lys
 1 5 10 15
 Lys Tyr Leu Glu Ser Lys Xaa Asp Val Ala Asp Ala Leu Leu Gln Thr
 20 25 30
 Asp Gln Ser Leu Ser Glu Lys Glu Lys Ala Ile Glu Val Glu Arg Ile
 35 40 45
 Lys Ala Glu Ser Ala Glu Ala Ala Lys Lys Met Leu Glu Glu Ile Xaa
 50 55 60
 Lys Lys Asn Glu Glu Met Met Glu Gln Lys Glu Lys Ser Tyr Gln Glu
 65 70 75 80
 His Val Lys Gln Leu Thr Glu Lys Met Glu Arg Asp Arg Ala Gln Leu
 85 90 95
 Met Ala Glu Gln Glu Lys Thr Leu Ala Leu Lys Leu Gln Glu Gln Glu
 100 105 110
 Arg Leu Leu Lys Glu Gly Phe Glu Asn Glu Ser Lys Arg Leu Gln Lys
 115 120 125
 Asp Ile Trp Asp Ile Gln Met Arg Ser Lys Ser Leu Glu Pro Ile Cys
 130 135 140
 Asn Ile Leu
 145

<210> 683
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 683
 Glu Arg Gly Ser Ser Leu Ala Leu Pro Leu Thr Gly Pro Cys Pro Ser
 1 5 10 15
 Pro Ser Ser Gln Ser Ile Val Ser His Val Pro Asp Asn Ser Ser Leu
 20 25 30
 Ser Val Pro Ser Ser Pro His Ser Ser Xaa Val Phe Pro Pro Thr Phe
 35 40 45
 Ser Leu Gln Leu Leu Gln Ile Gln Pro Leu Tyr Val Pro Leu Gln Ser
 50 55 60
 Leu Phe Pro Phe Leu Arg Val Thr Asp Gln Ser Val Glu Val His Gln
 65 70 75 80
 Pro His Pro Xaa Trp Thr Pro Asn Ile Phe Ser Xaa Pro Leu Trp Pro
 85 90 95
 Cys Ile Pro Phe Leu Trp His Leu Gly
 100 105

<210> 684
 <211> 274
 <212> PRT
 <213> Homo sapiens

<400> 684
 Ile Leu Leu Ser Ser Thr Phe Val Tyr Asn Ser Met Gly Thr Ile Asn
 1 5 10 15
 Gln Gln Ala Met Asp Gln Leu His Tyr Val Thr Glu Leu Thr Asp Arg
 20 25 30
 Ile Lys Ala Asn Ser Ser Pro Gly Asn Asn Ser Val Asp Asp Ser Ala
 35 40 45
 Asp Phe Val Ser Phe Phe Pro Ala Phe Val Trp Thr Leu Arg Asp Phe
 50 55 60
 Thr Leu Glu Leu Glu Val Asp Gly Glu Pro Ile Thr Ala Asp Asp Tyr
 65 70 75 80
 Leu Glu Leu Ser Leu Lys Leu Arg Lys Gly Thr Asp Lys Lys Ser Lys
 85 90 95
 Ser Phe Asn Asp Pro Arg Leu Cys Ile Arg Lys Phe Phe Pro Lys Arg
 100 105 110

Lys Cys Phe Val Phe Asp Trp Pro Ala Pro Lys Lys Tyr Leu Ala His
 115 120 125
 Leu Glu Gln Leu Lys Glu Glu Glu Leu Asn Pro Asp Phe Ile Glu Gln
 130 135 140
 5 Val Ala Glu Phe Cys Ser Tyr Ile Leu Ser His Ser Asn Val Lys Thr
 145 150 155 160
 Leu Ser Gly Gly Ile Ala Val Asn Gly Pro Arg Leu Glu Ser Leu Val
 165 170 175
 Leu Thr Tyr Val Asn Ala Ile Gly Ser Gly Asp Leu Pro Cys Met Glu
 180 185 190
 10 Asn Ala Val Leu Ala Leu Ala Gln Ile Glu Glu Leu Ser Pro Gln Xaa
 195 200 205
 Lys Arg Leu Leu Xaa Thr Tyr Glu Gln Gln Asp Gly Ala Arg Arg Gly
 210 215 220
 15 Ser Cys Pro Pro Glu Thr Leu Pro Gly Ala Xaa Gly Thr Cys Xaa Xaa
 225 230 235 240
 Thr Val Arg Lys Xaa Ala Ile Glu Val Phe Ile Glu Xaa Thr Phe Phe
 245 250 255
 Lys Asp Val Gly Pro Asn Gly Ser Lys Xaa Lys Leu Gly Gly Pro Ile
 260 265 270
 20 Trp Glu

25 <210> 685
 <211> 120
 <212> PRT
 <213> Homo sapiens

30 <400> 685
 Cys Thr Xaa Thr Ala Asp Gln Xaa Leu Ser Glu Lys Glu Lys Ala Ile
 1 5 10 15
 Glu Val Glu Arg Ile Lys Val Xaa Ser Ala Glu Ala Ala Lys Lys Met
 20 25 30
 Leu Glu Glu Ile Gln Lys Lys Asn Glu Glu Met Met Asp Gln Lys Glu
 35 35 40 45
 Lys Xaa Tyr Gln Glu His Val Xaa Gln Leu Xaa Xaa Xaa Met Xaa Arg
 50 55 60
 Xaa Arg Ala Gln Leu Met Ala Glu Gln Xaa Lys Pro Leu Xaa Xaa Lys
 65 70 75 80
 40 Leu Gln Glu Gln Glu Xaa Leu Xaa Lys Glu Gly Xaa Glu Asn Glu Ser
 85 90 95
 Lys Arg Xaa Gln Lys Asp Ile Trp Asp Ile Gln Met Arg Ser Lys Ser
 100 105 110
 Leu Glu Pro Ile Cys Asn Ile Leu
 115 120
 45

50 <210> 686
 <211> 205
 <212> PRT
 <213> Homo sapiens

55 <400> 686
 Pro Met Ser Leu Ile Asp Asn Thr Lys Gly Gln Leu Val Val Asn Pro
 1 5 10 15
 Glu Ala Leu Lys Ile Leu Ser Ala Ile Thr Gln Pro Val Val Val
 20 25 30
 Ala Ile Val Gly Leu Tyr Arg Thr Gly Lys Ser Tyr Leu Met Asn Lys
 35 40 45
 Leu Ala Gly Lys Lys Asn Gly Phe Ser Leu Gly Ser Thr Val Lys Ser
 50 55 60
 60 His Thr Lys Gly Ile Trp Met Trp Cys Val Pro His Pro Lys Lys Pro
 65 70 75 80
 Glu His Thr Leu Val Leu Leu Asp Thr Glu Gly Leu Gly Asp Ile Glu
 247

85 90 95
 Lys Gly Asp Asn Glu Asn Asp Ser Trp Ile Phe Ala Leu Ala Ile Leu
 100 105 110
 5 Leu Ser Ser Thr Phe Val Tyr Asn Ser Met Gly Thr Ile Asn Gln Gln
 115 120 125
 Ala Met Asp Gln Leu His Tyr Val Thr Glu Leu Thr Asp Arg Ile Lys
 130 135 140
 Ala Asn Ser Ser Pro Gly Asn Asn Ser Val Asp Asp Ser Ala Asp Phe
 145 150 155 160
 10 Val Ser Phe Phe Pro Ala Phe Val Trp Thr Leu Arg Asp Phe Thr Leu
 165 170 175
 Glu Leu Glu Val Asp Gly Glu Pro Ile Thr Ala Asp Asp Tyr Leu Glu
 180 185 190
 15 Leu Ser Leu Lys Leu Arg Lys Gly Thr Asp Lys Glu Lys
 195 200 205

<210> 687

<211> 111

<212> PRT

20 <213> Homo sapiens

<400> 687

Lys Arg Leu Ser Thr Gly Thr Ile Phe Leu Thr Gln Glu Val Pro Val
 1 5 10 15
 25 Xaa Xaa Ser Lys Cys Arg Ser Xaa Arg Ile Ser Xaa Pro Arg Val Pro
 20 25 30
 Lys Glu Gly Asp Thr Gly Asn Leu Pro Ala Lys Glu Val Xaa Lys Asn
 35 40 45
 30 Ile Trp Ser Pro Arg Xaa Met Gly Xaa Cys Thr Xaa Thr Asp Cys Gln
 50 55 60
 Ser Leu Phe Lys Lys Glu Lys Ala Ile Glu Val Asp Gly Ile Lys Ala
 65 70 75 80
 Glu Phe Ala Glu Ala Ala Lys Lys Met Leu Glu Glu Xaa Gln Lys Lys
 85 90 95
 35 Asn Glu Glu Met Met Ala Arg Lys Arg Arg Val Ile Arg Asn Met
 100 105 110

<210> 688

<211> 115

40 <212> PRT

<213> Homo sapiens

<400> 688

Lys Val Thr Asp Ser Leu Xaa Lys Cys Ile Xaa Pro Xaa Ser Leu Asp
 1 5 10 15
 45 Ser Lys Tyr Phe Phe Xaa Pro Leu Trp Pro Gly Gly Tyr Leu Tyr Pro
 20 25 30
 Leu Pro Trp Ala Pro Trp Xaa Asp Leu Phe Xaa Ser Ser Cys Thr Leu
 35 40 45
 50 Xaa Lys Xaa Pro Glu Pro Pro Gly Leu Lys Lys Trp Ser Leu Leu Thr
 50 55 60
 Ile Phe Phe Lys Arg Ala Gln Xaa Xaa Leu Glu Val Lys Xaa Cys His
 65 70 75 80
 Lys Ser Asp Asp Ala Phe Gly Ile Leu Leu Thr Lys Xaa Ile Xaa Pro
 85 90 95
 55 Leu Val Xaa Thr Gly Ala Leu Asn Ser Xaa Gly Gln Xaa Gly Pro His
 100 105 110
 Pro Trp Lys
 115

60

<210> 689

<211> 133

<212> PRT

<213> Homo sapiens

<400> 689

5 Glu Arg Gly Ser Ser Leu Ala Leu Pro Leu Thr Gly Pro Cys Pro Ser
 1 5 10 15
 Pro Ser Ser Gln Ser Ile Val Ser His Val Pro Asp Asn Ser Ser Leu
 20 25 30
 Ser Gly His His Leu Leu Ile Leu Leu Leu Xaa Phe Leu Gln His Phe
 35 40 45
 10 Leu Cys Ser Phe Cys Arg Phe Ser Leu Tyr Thr Val Pro Leu Gln Ser
 50 55 60
 Leu Phe Pro Phe Leu Arg Val Thr Asp Gln Val Cys Arg Ser Ala Ser
 65 70 75 80
 Thr Thr Ser Ser Leu Asp Ser Lys Tyr Phe Phe Ser Thr Ser Leu Ala
 15 85 90 95
 Xaa Ile Pro Xaa Leu Gly Pro Xaa Xaa Leu Ile Leu Gln Leu Leu Gln
 100 105 110
 Leu Leu Ser Lys Lys Thr Xaa Thr Xaa Trp Val Lys Lys Arg Xaa Leu
 115 120 125
 20 Leu Asp Ile Phe Phe
 130

<210> 690

<211> 112

25 <212> PRT

<213> Homo sapiens

<400> 690

30 Leu Ala Gly Gly Phe Pro Glu Glu Thr Ser Xaa Pro Gly Xaa Lys Lys
 1 5 10 15
 Leu Thr Pro Xaa Lys Val Xaa Pro Leu Xaa Xaa Gln Trp Pro Lys Gly
 20 25 30
 Xaa Cys Pro Gly Thr Pro Xaa Ser Cys Gly Xaa Pro Gln Xaa Ser Lys
 35 40 45
 35 Lys Gly Xaa Xaa Ser Phe His Xaa Asn Xaa Phe Lys Xaa Gly Pro Lys
 50 55 60
 Cys Ser Lys Xaa Ile Arg Ala Gln Trp Lys Gln Xaa Xaa Met Xaa Phe
 65 70 75 80
 Val Thr Glu Phe Gln Ser Phe Ile Arg Leu Trp Gln Ala Leu Leu Gln
 40 85 90 95
 Xaa Ile Phe Gly Pro Phe Arg Arg Arg Cys Gln Ala Xaa Thr Phe Phe
 100 105 110

<210> 691

45 <211> 93

<212> PRT

<213> Homo sapiens

<400> 691

50 Ser Leu Pro Gln Ser Asp Glu Ala Leu Glu Phe Cys Tyr Lys Xaa His
 1 5 10 15
 Xaa Xaa Leu Leu Pro Leu Gly Pro Asn Xaa Phe Gly Thr Phe Gly Pro
 20 25 30
 Xaa Leu Glu Xaa Ile Xaa Met Lys Thr Xaa Xaa Ala Phe Phe Thr Xaa
 35 40 45
 55 Leu Gly Xaa Ala Thr Thr Xaa Gly Gly Ser Arg Ala Xaa Ala Leu Trp
 50 55 60
 Pro Leu Xaa Xaa Lys Gly Xaa Asn Phe Xaa Gly Gly Glu Phe Phe Xaa
 65 70 75 80
 60 Ala Arg Xaa Thr Gly Phe Leu Arg Glu Thr Pro Cys Gln
 85 90

<210> 692

<211> 194
 <212> PRT
 <213> Homo sapiens

5 <400> 692
 Lys Lys Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu Glu Leu Asn
 1 5 10 15
 Pro Asp Phe Ile Glu Gln Val Ala Glu Phe Cys Ser Tyr Ile Leu Ser
 20 25 30
 10 His Ser Asn Val Lys Thr Leu Ser Gly Leu Glu Ser Leu Val Leu Thr
 35 40 45
 Tyr Val Asn Ala Ile Ser Ser Gly Asp Leu Pro Cys Met Glu Asn Ala
 50 55 60
 Val Leu Ala Leu Ala Gln Ile Glu Asn Ser Ala Ala Val Glu Lys Ala
 15 65 70 75 80
 Ile Ala His Tyr Glu Gln Gln Met Gly Gln Lys Val Gln Leu Pro Thr
 85 90 95
 Glu Thr Leu Gln Glu Leu Leu Asp Leu His Arg Asp Ser Glu Arg Glu
 100 105 110
 20 Ala Ile Glu Val Phe Met Lys Asn Ser Phe Lys Asp Val Asp Gln Met
 115 120 125
 Phe Gln Arg Lys Leu Gly Ala Gln Leu Glu Ala Arg Arg Asp Asp Phe
 130 135 140
 Cys Lys Gln Asn Ser Lys Ala Ser Ser Asp Cys Cys Met Ala Leu Leu
 25 145 150 155 160
 Gln Asp Ile Phe Gly Pro Leu Glu Glu Asp Val Lys Gln Gly Thr Phe
 165 170 175
 Ser Lys Pro Gly Gly Tyr Arg Leu Phe Thr Gln Lys Leu Gln Gly Ala
 180 185 190
 30 Glu Glu

<210> 693
 <211> 130
 <212> PRT
 <213> Homo sapiens

35 <400> 693
 Pro Pro Gly Asn Xaa Pro Glu Val Val Ala Leu Xaa Arg Ala Ser Lys
 1 5 10 15
 Lys Gly Xaa Xaa Ser Xaa Asn Lys Asp Phe Phe Lys Xaa Gly Pro Lys
 20 25 30
 Cys Ser Arg Glu Ile Arg Gly Pro Val Glu Ala Xaa Arg Asn Xaa Phe
 35 40 45
 45 Cys Ser Gln Ile Pro Lys Leu Ile Arg Leu Trp Xaa Gly Phe Thr Ser
 50 55 60
 Arg Ile Tyr Trp Ala Xaa Xaa Lys Lys Met Ser Ser Arg Glu His Phe
 65 70 75 80
 Leu Asn Pro Glu Gly Ser Gly Phe Phe Thr Gln Lys Leu Gln Glu Leu
 85 90 95
 50 Lys Asn Lys Ser Thr Arg Ala Lys Lys Gly Ile Gln Ala Lys Glu Val
 100 105 110
 Leu Lys Lys Tyr Leu Glu Ser Lys Glu Asp Val Ala Asp Ala Leu Leu
 115 120 125
 55 Gln Thr
 130

<210> 694
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 694

Val Lys Lys Pro Glu Pro Ser Gly Leu Arg Lys Cys Ser Leu Leu Asp
 1 5 10 15
 Ile Phe Xaa Xaa Ala Gln Tyr Ile Leu Glu Val Lys Xaa Cys His
 20 25 30
 5 Asn Leu Met Ser Phe Gly Ile Trp Leu Gln Lys Xaa Phe Xaa Leu Ala
 35 40 45
 Ser Thr Gly Pro Leu Ile Ser Leu Glu His Leu Gly Pro Xaa Leu Lys
 50 55 60
 Lys Ser Leu Leu Xaa Leu Xaa Xaa Pro Phe Leu Leu Ala Leu Xaa Arg
 10 65 70 75 80
 Ala Thr Thr Ser Gly Xaa Phe Pro Gly
 85

15 <210> 695
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 695
 20 Pro Lys Lys Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu Glu Leu
 1 5 10 15
 Asn Pro Asp Phe Ile Glu Gln Val Ala Glu Phe Cys Ser Tyr Ile Leu
 20 25 30
 Ser His Ser Asn Val Lys Thr Leu Ser Gly Gly Ile Pro Val Asn Gly
 35 40 45
 25 Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile Ser Ser
 50 55 60
 Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala Gln Ile
 65 70 75 80
 30 Glu Asn Ser Ala Ala Val Glu Lys Ala Ile Ala His Tyr Glu Gln Gln
 85 90 95
 Met Gly Gln Lys Val Gln Leu Pro Thr Glu Thr Leu Gln Glu Leu Leu
 100 105 110
 Asp Leu His Arg Asp Ser Glu Arg Glu Ala Ile Glu Val Phe Met Lys
 115 120 125
 35 Asn Ser Phe Lys Asp Val Asp Gln Met Phe Gln Arg Lys Leu Gly Ala
 130 135 140
 Gln Leu Glu Ala Arg Arg Asp Asp Phe Cys Lys Gln Asn Ser Lys Ala
 145 150 155 160
 40 Ser Ser Asp Cys Cys Met Ala Leu Leu Gln Asp Ile Phe Gly Pro Leu
 165 170 175
 Glu Glu Asp Val Lys Gln Gly Thr Phe Ser Lys Pro Gly Gly Tyr Arg
 180 185 190
 Leu Phe Thr Gln Lys Leu Ala Gly Ala Glu Glu
 195 200
 45

<210> 696
 <211> 159
 <212> PRT
 50 <213> Homo sapiens

<400> 696
 Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu His Tyr Val Thr Glu
 1 5 10 15
 55 Leu Thr Asp Arg Ile Lys Ala Asn Ser Ser Pro Gly Asn Asn Ser Val
 20 25 30
 Asp Asp Ser Ala Asp Phe Val Ser Phe Phe Pro Ala Phe Val Trp Thr
 35 40 45
 Leu Arg Asp Phe Thr Leu Glu Leu Glu Val Asp Gly Glu Pro Ile Thr
 50 55 60
 60 Ala Asp Asp Tyr Leu Glu Leu Ser Leu Lys Leu Arg Lys Gly Thr Asp
 65 70 75 80
 Xaa Lys Ser Lys Ser Phe Asn Asp Pro Arg Leu Cys Ile Arg Lys Phe
 85 90 95

85 90 95
 Phe Pro Lys Arg Lys Cys Phe Val Phe Asp Trp Pro Ala Pro Lys Lys
 100 105 110
 Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu Glu Leu Asn Pro Asp
 115 120 125
 Phe Ile Glu Gln Xaa Ala Glu Phe Cys Ser Tyr Ile Leu Xaa Xaa Ser
 130 135 140
 Asn Val Lys Thr Leu Ser Gly Xaa Ile Pro Ala Met Gly Leu Val
 145 150 155
 10
 <210> 697
 <211> 194
 <212> PRT
 <213> Homo sapiens
 15
 <400> 697
 Tyr Gly Gln Gly Ile Asn Pro Ile Ser Arg Leu Ala Gln Ile Gln Gln
 1 5 10 15
 Ala Lys Lys Glu Lys Glu Pro Glu Tyr Thr Leu Leu Thr Glu Arg Gly
 20 20 25 30
 Leu Pro Arg Arg Arg Glu Phe Val Met Gln Val Lys Val Gly Asn His
 35 40 45
 Thr Ala Glu Gly Thr Gly Thr Asn Lys Lys Val Ala Lys Arg Asn Ala
 50 55 60
 25 Ala Glu Asn Met Leu Glu Ile Leu Gly Phe Lys Val Pro Gln Ala Gln
 65 70 75 80
 Pro Thr Lys Pro Ala Leu Lys Ser Glu Glu Lys Thr Pro Ile Lys Lys
 85 90 95
 Pro Gly Asp Gly Arg Lys Val Thr Phe Phe Glu Pro Gly Ser Gly Asp
 100 105 110
 30 Glu Asn Gly Thr Ser Asn Lys Glu Asp Glu Phe Arg Met Pro Tyr Leu
 115 120 125
 Ser His Gln Gln Leu Pro Ala Gly Ile Leu Pro Met Val Pro Glu Val
 130 135 140
 35 Ala Gln Ala Val Gly Val Ser Gln Gly His His Thr Lys Asp Phe Thr
 145 150 155 160
 Arg Ala Ala Pro Asn Pro Ala Lys Ala Thr Val Thr Ala Met Ile Ala
 165 170 175
 40 Arg Glu Leu Leu Tyr Gly Gly Thr Ser Pro Thr Ala Glu Thr Ile Leu
 180 185 190
 Lys Glu
 45
 <210> 698
 <211> 92
 <212> PRT
 <213> Homo sapiens
 50
 <400> 698
 Gln Tyr Arg Ala Leu Trp Lys Ile Thr Leu Gln Val Tyr Met Asp Tyr
 1 5 10 15
 Met Glu Ile Ile Ser Cys Ser Val Val Lys Ala Lys Ser Ser Arg Ala
 20 25 30
 Ile Cys Ile Asp Thr Gln Cys Phe Leu Ile Ile Phe Lys Thr Glu Ile
 35 40 45
 55 Lys Val His Leu Ser Pro Val Cys Ile Asn Lys Asn Lys Asn Glu Ile
 50 55 60
 Lys Met Glu Pro Asn Asp His Leu Lys Phe Lys Ile Pro Lys Leu Ser
 65 70 75 80
 60 Asn Leu Tyr Asn Cys Gly Arg Leu Ile Gln Gly Phe
 85 90
 <210> 699

<211> 395
 <212> PRT
 <213> Homo sapiens

5 <400> 699
 His Lys Ser Asp Leu Pro Ala Phe Ser Ala Glu Val Glu Glu Glu Ser
 1 5 10 15
 Glu Ala Gly Lys Glu Ser Glu Glu Thr Glu Thr Lys Gln Thr Leu Lys
 20 25 30
 10 Glu Phe Arg Cys Gln Val Ser Asp Cys Ser Arg Ile Phe Gln Ala Ile
 35 40 45
 Thr Gly Leu Ile Gln His Tyr Met Lys Leu His Glu Met Thr Pro Glu
 50 55 60
 Glu Ile Glu Ser Met Thr Ala Ser Val Asp Val Gly Lys Phe Pro Cys
 15 65 70 75 80
 Asp Gln Leu Glu Cys Lys Ser Ser Phe Thr Thr Tyr Leu Asn Tyr Val
 85 90 95
 Val His Leu Glu Ala Asp His Gly Ile Gly Leu Arg Ala Ser Lys Thr
 100 105 110
 20 Glu Glu Asp Gly Val Tyr Lys Cys Asp Cys Glu Gly Cys Asp Arg Ile
 115 120 125
 Tyr Ala Thr Arg Ser Asn Leu Leu Arg His Ile Phe Asn Lys His Asn
 130 135 140
 Asp Lys His Lys Ala His Leu Ile Arg Pro Arg Arg Leu Thr Pro Gly
 25 145 150 155 160
 Gln Glu Asn Met Ser Ser Lys Ala Asn Gln Glu Lys Ser Lys Ser Lys
 165 170 175
 His Arg Gly Thr Lys His Ser Arg Cys Gly Lys Glu Gly Ile Lys Met
 180 185 190
 30 Pro Lys Thr Lys Arg Lys Lys Lys Asn Asn Leu Glu Asn Lys Asn Ala
 195 200 205
 Lys Ile Val Gln Ile Glu Glu Asn Lys Pro Tyr Ser Leu Lys Arg Gly
 210 215 220
 Lys His Val Tyr Ser Ile Lys Ala Arg Asn Asp Ala Leu Ser Glu Cys
 35 225 230 235 240
 Thr Ser Arg Phe Val Thr Gln Tyr Pro Cys Met Ile Lys Gly Cys Thr
 245 250 255
 Ser Val Val Thr Ser Glu Ser Asn Ile Ile Arg His Tyr Lys Cys His
 260 265 270
 40 Lys Leu Ser Lys Ala Phe Thr Ser Gln His Arg Asn Leu Leu Ile Val
 275 280 285
 Phe Lys Arg Cys Cys Asn Ser Gln Val Lys Glu Thr Ser Glu Gln Glu
 290 295 300
 Gly Ala Lys Asn Asp Val Lys Asp Ser Asp Thr Cys Val Ser Glu Ser
 45 305 310 315 320
 Asn Asp Asn Ser Arg Thr Thr Ala Thr Val Ser Gln Lys Glu Val Glu
 325 330 335
 Lys Asn Glu Lys Asp Glu Met Asp Glu Leu Thr Glu Leu Phe Ile Thr
 340 345 350
 50 Lys Leu Ile Asn Glu Asp Ser Thr Ser Val Glu Thr Gln Ala Asn Thr
 355 360 365
 Ser Ser Asn Val Ser Asn Asp Phe Gln Gly Arg Tyr Leu Cys Gln Ser
 370 375 380
 Glu Arg Gln Lys Ala Ser Asn Leu Lys Lys Ser
 55 385 390 395

<210> 700
 <211> 209
 <212> PRT
 <213> Homo sapiens

60 <400> 700
 Lys Glu Gly Ile Lys Met Pro Lys Thr Lys Arg Lys Lys Lys Asn Asn

1 5 10 15
 Leu Glu Asn Lys Asn Ala Lys Ile Val Gln Ile Glu Glu Asn Lys Pro
 20 25 30
 Tyr Ser Leu Lys Arg Gly Lys His Val Tyr Ser Ile Lys Ala Arg Asn
 35 40 45
 Asp Ala Leu Ser Glu Cys Thr Ser Arg Phe Val Thr Gln Tyr Pro Cys
 50 55 60
 Met Ile Lys Gly Cys Thr Ser Val Val Thr Ser Glu Ser Asn Ile Ile
 65 70 75 80
 10 Arg His Tyr Lys Cys His Lys Leu Ser Lys Ala Phe Thr Ser Gln His
 85 90 95
 Arg Asn Leu Leu Ile Val Phe Lys Arg Cys Cys Asn Ser Gln Val Lys
 100 105 110
 Glu Thr Ser Glu Gln Glu Gly Ala Lys Asn Asp Val Lys Asp Ser Asp
 115 120 125
 Thr Cys Val Ser Glu Ser Asn Asp Asn Ser Arg Thr Thr Ala Thr Val
 130 135 140
 Ser Gln Lys Glu Val Glu Lys Asn Glu Lys Asp Glu Met Asp Glu Leu
 145 150 155 160
 20 Thr Glu Leu Phe Ile Thr Lys Leu Ile Asn Glu Asp Ser Thr Ser Val
 165 170 175
 Glu Thr Gln Ala Asn Thr Ser Ser Asn Val Ser Asn Asp Phe Gln Gly
 180 185 190
 Arg Tyr Leu Cys Gln Ser Glu Arg Gln Lys Ala Ser Asn Leu Lys Lys
 195 200 205
 25 Ser

30 <210> 701
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 701
 35 Phe Phe Xaa Phe Val Pro Xaa Ser Xaa Asn Gln Tyr Phe Phe Phe Glu
 1 5 10 15
 Phe Glu Arg Xaa Pro Phe Phe Cys Phe Pro Val Phe Gly Arg Val Phe
 20 25 30
 Gly Arg Ile Phe Phe Trp Val Xaa Leu Gln Thr Xaa Gln Lys Phe Gln
 35 40 45
 Lys Arg Xaa Phe Asn Ser His Trp Leu Lys Arg Ala Pro Val Lys Glu
 50 55 60
 Ala Glu Cys Ser Ser Met Val Glu Cys Gln Gln Gln Phe Xaa Phe Leu
 65 70 75 80
 45 Xaa Gly Thr Leu Leu Asn Ser Ala Ala Asp Ala Gly Ser Ala Phe Ser
 85 90 95
 Thr Phe Leu Phe Leu Phe Cys Glu Thr Phe Phe Ser Xaa Ile Asn Ser
 100 105 110
 Ser Ser Asn Tyr Trp Leu Phe Val Phe Arg Thr Gly Arg Gly Ile Phe
 115 120 125
 50 Pro Glu Asn His Tyr Leu His Leu Lys Lys Tyr
 130 135

55 <210> 702
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 702
 60 Phe Ser Xaa Leu Ser Gln Xaa Xaa Leu Thr Asn Ile Phe Phe Leu Asn
 1 5 10 15
 Leu Lys Gly Xaa Pro Phe Phe Val Ser Gln Tyr Ser Glu Gly Phe Leu
 20 25 30

Ala Gly Phe Phe Phe Gly Phe Xaa Cys Arg Leu Xaa Lys Asn Phe Lys
 35 40 45
 Lys Xaa Thr Ser Ile Pro Ile Gly Leu Lys Glu Leu Gln Ser Lys Lys
 50 55 60
 5 Gln Asn Ala Pro Gln Trp Leu Asn Ala Asn Ser Ser Xaa Phe Phe Xaa
 65 70 75 80
 Thr Ala Arg Tyr Leu Thr Gln Leu Leu Met Leu Val Gln Leu Phe Gln
 85 90 95
 Leu Ser Phe Phe Tyr Phe Val Arg His Phe Phe Xaa Leu Leu Thr Leu
 10 100 105 110
 Leu Gln Ile Thr Gly Phe Leu Ser Phe Gly Leu Ala Glu Val Ser Ser
 115 120 125
 Leu Lys Ile Ile Thr Tyr Ile
 130 135

15

<210> 703
 <211> 135
 <212> PRT
 <213> Homo sapiens

20

<400> 703
 Phe Pro Leu Val Thr Ala Val Leu Ser Ile Phe Phe Leu Glu Phe Glu
 1 5 10 15
 Trp Asp Pro Phe Leu Phe Pro Val Phe Gly Trp Xaa Leu Gln Tyr Phe
 25 20 25 30
 Ser Ser Ala Ser Leu Gln Thr Pro Gln Glu Thr Ser Glu Met Ile Phe
 35 40 45
 Lys Ser His Trp Leu Lys Lys Ser Xaa Ser Gln Lys Asp Ala Arg Xaa
 50 55 60
 30 Ser Ser Met Gly Xaa Met Ala Pro Ala Val Ser Xaa Ser Leu Pro Xaa
 65 70 75 80
 Xaa Leu Asn Ser Ala Xaa Gly Cys Trp Val Asn Leu Phe Gln Leu Phe
 85 90 95
 Leu Phe Leu Phe Xaa Glu Xaa Xaa Phe Ser Leu Leu Thr Leu Phe Lys
 35 100 105 110
 Tyr Leu Ala Phe Trp Leu Ser Asp Trp Ala Xaa Gly Phe Xaa Pro Glu
 115 120 125
 Asn His Ser Leu His Leu Lys
 130 135

40

<210> 704
 <211> 123
 <212> PRT
 <213> Homo sapiens

45

<400> 704
 Gly Val Cys Ser Glu Ala Glu Glu Lys Tyr Cys Lys Xaa His Pro Asn
 1 5 10 15
 Thr Gly Asn Lys Lys Gly Ser His Ser Asn Ser Arg Lys Asn Ile Asp
 50 20 25 30
 Lys Thr Ala Val Thr Ser Gly Asn His Val Cys Pro Cys Lys Glu Ser
 35 40 45
 Glu Thr Phe Val Gln Phe Ala Asn Pro Ser Gln Leu Gln Cys Ser Asp
 50 55 60
 55 Asn Val Lys Ile Val Leu Asp Lys Asn Leu Lys Asp Cys Thr Glu Leu
 65 70 75 80
 Val Leu Lys Gln Leu Gln Glu Met Lys Pro Thr Val Ser Leu Lys Lys
 85 90 95
 Leu Glu Val His Ser Asn Asp Pro Asp Met Ser Val Met Lys Asp Ile
 60 100 105 110
 Ser Ile Gly Lys Ala Thr Gly Arg Gly Gln Tyr
 115 120

<210> 705
 <211> 242
 <212> PRT
 <213> Homo sapiens

5

<400> 705
 His Glu Met Thr Pro Glu Glu Ile Glu Ser Met Thr Ala Ser Val Asp
 1 5 10 15
 Val Gly Lys Phe Pro Cys Asp Gln Leu Glu Cys Lys Ser Ser Phe Thr
 20 25 30
 Thr Tyr Leu Asn Tyr Val Val His Leu Glu Ala Asp His Gly Ile Gly
 35 40 45
 Leu Arg Ala Ser Lys Thr Glu Glu Asp Gly Val Tyr Lys Cys Asp Cys
 50 55 60
 Glu Gly Cys Asp Arg Ile Tyr Ala Thr Arg Ser Asn Leu Leu Arg His
 65 70 75 80
 Ile Phe Asn Lys His Asn Asp Lys His Lys Ala His Leu Ile Arg Pro
 85 90 95
 Arg Arg Leu Thr Pro Gly Gln Glu Asn Met Ser Ser Lys Ala Asn Gln
 100 105 110
 Glu Lys Ser Lys Ser Lys His Arg Gly Thr Lys His Ser Arg Cys Gly
 115 120 125
 Lys Glu Gly Ile Lys Met Pro Lys Thr Lys Arg Lys Lys Lys Asn Asn
 130 135 140
 Leu Glu Asn Lys Asn Ala Lys Ile Val Gln Ile Glu Glu Asn Lys Pro
 145 150 155 160
 Tyr Ser Leu Lys Arg Gly Lys His Val Tyr Ser Ile Lys Ala Xaa Asn
 165 170 175
 Asp Ala Leu Ser Glu Cys Thr Ser Arg Phe Val Thr Gln Tyr Pro Cys
 180 185 190
 Met Ile Lys Gly Cys Thr Ser Val Val Thr Ser Glu Ser Asn Ile Ile
 195 200 205
 Arg His Tyr Lys Xaa His Lys Leu Ser Lys Ala Leu His His Thr Pro
 210 215 220
 Glu Xaa Xaa Leu Leu Phe Ser Asn Xaa Val Cys Thr Pro Ser Lys Gly
 225 230 235 240
 Asn Val

40

<210> 706
 <211> 200
 <212> PRT
 <213> Homo sapiens

45

<400> 706
 His Lys Ser Asp Leu Pro Ala Phe Ser Ala Glu Val Glu Glu Glu Ser
 1 5 10 15
 Glu Ala Gly Xaa Glu Ser Xaa Glu Thr Glu Thr Lys Gln Thr Leu Lys
 20 25 30
 Glu Phe Arg Cys Xaa Xaa Ser Asp Cys Ser Arg Ile Phe Gln Ala Ile
 35 40 45
 Thr Gly Leu Ile Gln His Tyr Met Lys Leu His Glu Met Thr Pro Glu
 50 55 60
 Glu Ile Glu Ser Met Thr Ala Ser Val Asp Val Gly Lys Phe Pro Cys
 65 70 75 80
 Asp Xaa Leu Glu Cys Lys Ser Ser Phe Thr Thr Tyr Leu Asn Tyr Val
 85 90 95
 Val His Leu Glu Ala Asp His Gly Ile Gly Leu Arg Ala Ser Lys Thr
 100 105 110
 Glu Glu Asp Gly Val Tyr Lys Cys Asp Cys Glu Gly Cys Asp Arg Ile
 115 120 125
 Tyr Ala Thr Arg Thr Asn Leu Leu Arg Xaa Ile Phe Asn Lys His Asn
 130 135 140

Asp Lys His Lys Ala His Leu Ile Arg Pro Arg Arg Leu Thr Pro Gly
 145 150 155 160
 Gln Glu Asn Met Xaa Ser Lys Ala Asn Gln Glu Lys Ser Lys Ser Lys
 165 170 175
 5 His Arg Gly Thr Lys His Xaa Lys Cys Gly Lys Glu Gly Ile Lys Met
 180 185 190
 Pro Arg Pro Thr Lys Glu Xaa Lys
 195 200

 10 <210> 707
 <211> 103
 <212> PRT
 <213> Homo sapiens

 15 <400> 707
 Xaa Ser Tyr Arg Asn Xaa Gly Leu Gln Ile Leu Leu Gly His Ser Asp
 1 5 10 15
 Arg Ala Ser Phe Xaa Ser Leu Asn Arg Ile Xaa Met Leu Pro Thr Phe
 20 25 30
 20 Gln Lys Ile Arg Leu Ile Xaa Phe Gln Phe Ala Gln Ser Leu His Ser
 35 40 45
 Cys Phe Leu Asn Tyr Xaa Phe Ser Phe Val Gly Arg Gly Ile Phe Ile
 50 55 60
 Pro Ser Phe Pro His Xaa Leu Cys Leu Val Pro Arg Cys Leu Asp Phe
 25 65 70 75 80
 Asp Phe Ser Trp Phe Ala Leu Leu Xaa Ile Phe Ser Trp Pro Gly Val
 85 90 95
 Asn Leu Leu Gly Arg Ile Lys
 100

 30 <210> 708
 <211> 135
 <212> PRT
 <213> Homo sapiens

 35 <400> 708
 Met Gly Ser Phe Phe Val Ser Ser Ile Arg Met Val Phe Ala Val Phe
 1 5 10 15
 Phe Phe Cys Phe Thr Xaa Asp Xaa Ser Arg Asn Phe Arg Asn Asp Leu
 40 20 25 30
 Gln Ile Pro Leu Gly Leu Lys Xaa Leu Gln Ser Lys Arg Cys Xaa Asp
 35 40 45
 Ala Pro His Xaa Leu Asn Gly Asn Ser Lys Phe Xaa Xaa Leu Tyr Xaa
 50 55 60
 45 Arg Tyr Leu Thr Xaa Leu Xaa Met Leu Xaa Gln Leu Phe Gln Leu Ser
 65 70 75 80
 Phe Phe Ile Xaa Xaa Asp Xaa Phe Xaa Phe Tyr Leu Ser Ser Asn Thr
 85 90 95
 Cys Phe Trp Leu Ser Asp Gly Arg Gly Phe Phe Arg Lys His Phe Phe
 50 100 105 110
 Xaa Leu Xaa Lys Phe Asn Leu Gly Xaa Ser Xaa Gly Leu Ser Xaa Leu
 115 120 125
 Leu Ile Trp Lys Lys Gln Ser
 130 135

 55 <210> 709
 <211> 67
 <212> PRT
 <213> Homo sapiens

 60 <400> 709
 Ser Ser Lys Pro Ile Gly Leu Lys Glu Leu Gln Ser Lys Asp Ala Xaa
 1 5 10 15

Cys⁴ Ser Ser Met Gly Glu Trp His Ser Ser Phe Phe Phe Phe Thr Xaa
 20 25 30
 Arg³ Tyr Leu Thr Xaa Leu Leu Met Ala Gly Ser Thr Phe Ser Thr Phe
 35 40 45
 5 Leu Phe Tyr Leu Gly Arg His Phe Phe Leu Ile Thr Leu Ser Lys Thr
 50 55 60
 Ala Phe Gly
 65

 10 <210> 710
 <211> 131
 <212> PRT
 <213> Homo sapiens

 15 <400> 710
 Arg Ser Phe Leu Lys Phe Leu Glu Xaa Ser Ala Val Lys Gln Lys Lys
 1 5 10 15
 Asn Xaa Xaa Lys Xaa His Pro Asn Thr Gly Asn Lys Lys Gly Ser His
 20 25 30
 20 Ser Asn Ser Arg Lys Asn Ile Asp Lys Thr Ala Val Thr Ser Gly Asn
 35 40 45
 His Val Cys Pro Cys Lys Glu Ser Glu Thr Phe Val Gln Phe Ala Asn
 50 55 60
 Pro Ser Gln Leu Gln Cys Ser Asp Asn Val Lys Ile Val Leu Xaa Lys
 25 65 70 75 80
 Asn Leu Lys Asp Cys Xaa Glu Leu Val Leu Lys Gln Leu Gln Glu Met
 85 90 95
 Lys Pro Xaa Val Ser Leu Lys Lys Leu Glu Val His Ser Asn Asp Pro
 100 105 110
 30 Asp Met Ser Val Met Lys Asp Ile Ser Ile Gly Lys Ala Thr Gly Arg
 115 120 125
 Gly Gln Tyr
 130

 35 <210> 711
 <211> 528
 <212> PRT
 <213> Homo sapiens

 40 <400> 711
 Lys Asn Arg Ser Ile Gly Ala Ala Ala Lys Ser Gln Val Ile Ser Asn
 1 5 10 15
 Ala Lys Asn Thr Val Gln Gly Phe Lys Arg Phe His Gly Arg Ala Phe
 20 25 30
 45 Ser Asp Pro Phe Val Glu Ala Glu Lys Ser Asn Leu Ala Tyr Asp Ile
 35 40 45
 Val Gln Leu Pro Thr Gly Leu Thr Gly Ile Lys Val Thr Tyr Met Glu
 50 55 60
 Glu Glu Arg Asn Phe Thr Thr Glu Gln Val Thr Ala Met Leu Leu Ser
 50 65 70 75 80
 Lys Leu Lys Glu Thr Ala Glu Ser Val Leu Lys Lys Pro Val Val Asp
 85 90 95
 Cys Val Val Ser Val Pro Cys Phe Tyr Thr Asp Ala Glu Arg Arg Ser
 100 105 110
 55 Val Met Asp Ala Thr Gln Ile Ala Gly Leu Asn Cys Leu Arg Leu Met
 115 120 125
 Asn Glu Thr Thr Ala Val Ala Leu Ala Tyr Gly Ile Tyr Lys Gln Asp
 130 135 140
 Leu Pro Ala Leu Glu Glu Lys Pro Arg Asn Val Phe Val Asp Met
 60 145 150 155 160
 Gly His Ser Ala Tyr Gln Val Ser Val Cys Ala Phe Asn Arg Gly Lys
 165 170 175
 Leu Lys Val Leu Ala Thr Ala Phe Asp Thr Thr Leu Gly Gly Arg Lys

180 185 190
 Phe Asp Glu Val Leu Val Asn His Phe Cys Glu Glu Phe Gly Lys Lys
 195 200 205
 Tyr Lys Leu Asp Ile Lys Ser Lys Ile Arg Ala Leu Leu Arg Leu Ser
 210 215 220
 5 Gln Glu Cys Glu Lys Leu Lys Lys Leu Met Ser Ala Asn Ala Ser Asp
 225 230 235 240
 Leu Pro Leu Ser Ile Glu Cys Phe Met Asn Asp Val Asp Val Ser Gly
 245 250 255
 10 Thr Met Asn Arg Gly Lys Phe Leu Glu Met Cys Asn Asp Leu Leu Ala
 260 265 270
 Arg Val Glu Pro Pro Leu Arg Ser Val Leu Glu Gln Thr Lys Leu Lys
 275 280 285
 15 Lys Glu Asp Ile Tyr Ala Val Glu Ile Val Gly Gly Ala Thr Arg Ile
 290 295 300
 Pro Ala Val Lys Glu Lys Ile Ser Lys Phe Phe Gly Lys Glu Leu Ser
 305 310 315 320
 Thr Thr Leu Asn Ala Asp Glu Ala Val Thr Arg Gly Cys Ala Leu Gln
 325 330 335
 20 Cys Ala Ile Leu Ser Pro Ala Phe Lys Val Arg Glu Phe Ser Ile Thr
 340 345 350
 Asp Val Val Pro Tyr Pro Ile Ser Leu Arg Trp Asn Ser Pro Xaa Glu
 355 360 365
 25 Glu Gly Ser Ser Asp Cys Glu Val Phe Ser Lys Asn His Ala Ala Pro
 370 375 380
 Phe Ser Lys Val Leu Thr Phe Tyr Arg Lys Glu Pro Phe Thr Leu Glu
 385 390 395 400
 Ala Tyr Tyr Ser Ser Pro Gln Asp Leu Pro Tyr Pro Asp Pro Ala Ile
 405 410 415
 30 Ala Gln Phe Ser Val Gln Lys Val Thr Pro Gln Ser Asp Gly Ser Ser
 420 425 430
 Ser Lys Val Lys Val Lys Val Arg Val Asn Val His Gly Ile Phe Ser
 435 440 445
 35 Val Ser Ser Ala Ser Leu Val Glu Val His Lys Ser Glu Glu Asn Glu
 450 455 460
 Glu Pro Met Glu Thr Asp Gln Asn Ala Lys Glu Glu Glu Lys Met Gln
 465 470 475 480
 Val Asp Gln Glu Glu Pro His Val Glu Glu Gln Gln Gln Thr Pro
 485 490 495
 40 Ala Glu Asn Lys Ala Glu Ser Glu Glu Met Glu Thr Ser Gln Ala Gly
 500 505 510
 Ser Lys Asp Lys Lys Met Asp Gln Pro Pro Lys Pro Arg Arg Gln Lys
 515 520 525
 45 <210> 712
 <211> 156
 <212> PRT
 <213> Homo sapiens
 50 <400> 712
 Asp Cys Glu Val Phe Ser Lys Asn His Ala Ala Pro Phe Ser Lys Val
 1 5 10 15
 Leu Thr Phe Tyr Arg Lys Glu Pro Phe Thr Leu Glu Ala Tyr Tyr Ser
 20 25 30
 55 Ser Pro Gln Asp Leu Pro Tyr Pro Asp Pro Ala Ile Ala Gln Phe Ser
 35 40 45
 Val Gln Lys Val Thr Pro Gln Ser Asp Gly Ser Ser Lys Val Lys
 50 55 60
 Val Lys Val Arg Val Asn Val His Gly Ile Phe Ser Val Ser Ser Ala
 65 70 75 80
 60 Ser Leu Val Glu Val His Lys Ser Glu Glu Asn Glu Glu Pro Met Glu
 85 90 95
 Thr Asp Gln Asn Ala Lys Glu Glu Lys Met Gln Val Asp Gln Glu
 260

100 105 110
 Glu Pro His Val Glu Glu Gln Gln Gln Gln Thr Pro Ala Glu Asn Lys
 115 120 125
 Ala Glu Ser Glu Glu Met Glu Thr Ser Gln Ala Gly Ser Lys Asp Lys
 130 135 140
 Lys Met Asp Gln Pro Pro Lys Pro Arg Arg Gln Lys
 145 150 155

 <210> 713
 <211> 166
 <212> PRT
 <213> Homo sapiens

 <400> 713
 15 Val Asn Leu Leu Arg Tyr Val Ser Arg Asn Leu Lys Asn Asp Gln Lys
 1 5 10 15
 Leu Phe Glu Glu Leu Gly Lys Gln Ile His Gln Tyr Met Lys Ile Ile
 20 25 30
 Ser Ser Phe Lys Asn Lys Glu Asp Gln Tyr Asp His Leu Asp Ala Ala
 35 40 45
 Asp Met Thr Lys Val Glu Lys Ser Thr Asn Glu Ala Met Glu Trp Met
 50 55 60
 Asn Asn Lys Leu Asn Leu Gln Asn Lys Gln Ser Leu Thr Met Asp Pro
 65 70 75 80
 25 Val Val Lys Ser Lys Glu Ile Glu Ala Lys Ile Lys Glu Leu Thr Ser
 85 90 95
 Thr Cys Ser Pro Ile Ile Ser Lys Pro Lys Pro Lys Val Glu Pro Pro
 100 105 110
 Lys Glu Gly Xaa Lys Met Xaa Xaa Arg Xaa Ala Xaa Trp Met Asp Lys
 115 120 125
 Glu Thr Thr Gln Ala Pro Arg Xaa Xaa Ser Arg Val Gln Thr Gln Leu
 130 135 140
 Cys Leu Arg Ile Gln Thr Arg Ser Phe Leu Lys Trp Thr Leu Ile Asp
 145 150 155 160
 35 Ser Asn Thr Cys Phe Tyr
 165

 <210> 714
 <211> 219
 <212> PRT
 <213> Homo sapiens

 <400> 714
 45 Val Val Ser Val Pro Cys Phe Tyr Thr Asp Ala Glu Arg Arg Ser Val
 1 5 10 15
 Met Asp Ala Thr Gln Ile Ala Gly Leu Asn Cys Leu Arg Leu Met Asn
 20 25 30
 Glu Thr Thr Ala Val Ala Leu Ala Tyr Gly Ile Tyr Lys Gln Asp Leu
 35 40 45
 50 Pro Ala Leu Glu Glu Lys Pro Arg Asn Val Val Phe Val Asp Met Gly
 50 55 60
 His Ser Ala Tyr Gln Val Ser Val Cys Ala Phe Asn Arg Gly Lys Leu
 65 70 75 80
 Lys Val Leu Ala Thr Ala Phe Asp Thr Thr Leu Gly Gly Arg Lys Phe
 85 90 95
 55 Asp Glu Val Leu Val Asn His Phe Cys Glu Glu Phe Gly Lys Lys Tyr
 100 105 110
 Lys Leu Asp Ile Lys Ser Lys Ile Arg Ala Leu Leu Arg Leu Ser Gln
 115 120 125
 60 Glu Cys Glu Lys Leu Lys Lys Leu Met Ser Ala Asn Ala Ser Asp Leu
 130 135 140
 Pro Leu Ser Ile Glu Cys Phe Met Asn Asp Val Asp Val Ser Gly Thr
 145 150 155 160

Met Asn Arg Gly Lys Phe Leu Glu Met Cys Asn Asp Leu Leu Ala Arg
 165 170 175
 Val Glu Pro Pro Leu Arg Ser Val Leu Glu Gln Thr Lys Leu Lys Lys
 180 185 190
 5 Glu Asp Ile Tyr Ala Val Glu Ile Val Gly Gly Ala Thr Arg Ile Pro
 195 200 205
 Ala Val Lys Glu Lys Ile Ser Gln Ile Phe Arg
 210 215

10 <210> 715
 <211> 184
 <212> PRT
 <213> Homo sapiens

15 <400> 715
 Lys Asn Arg Ser Ile Gly Ala Ala Ala Lys Ser Gln Val Ile Ser Asn
 1 5 10 15
 Ala Lys Asn Thr Val Gln Gly Phe Lys Arg Phe His Gly Arg Ala Phe
 20 25 30
 20 Ser Asp Pro Phe Val Glu Ala Glu Lys Ser Asn Leu Ala Tyr Asp Ile
 35 40 45
 Val Gln Leu Pro Thr Gly Leu Thr Gly Ile Lys Val Thr Tyr Met Glu
 50 55 60
 Glu Glu Arg Asn Phe Thr Thr Glu Gln Val Thr Ala Met Leu Leu Ser
 25 65 70 75 80
 Lys Leu Lys Glu Thr Ala Glu Ser Val Leu Lys Lys Pro Val Val Asp
 85 90 95
 Cys Val Val Ser Val Pro Cys Phe Tyr Thr Asp Ala Glu Arg Arg Ser
 100 105 110
 30 Val Met Asp Ala Thr Gln Ile Ala Gly Leu Asn Cys Leu Arg Leu Met
 115 120 125
 Asn Glu Thr Thr Ala Val Ala Leu Ala Tyr Gly Ile Tyr Lys Gln Asp
 130 135 140
 Leu Pro Ala Leu Glu Glu Lys Pro Arg Asn Val Val Phe Val Asp Met
 35 145 150 155 160
 Gly His Ser Ala Tyr Gln Val Ser Val Cys Ala Phe Asn Arg Gly Lys
 165 170 175
 Leu Lys Val Ser Gly His Cys Ile
 180

40 <210> 716
 <211> 247
 <212> PRT
 <213> Homo sapiens

45 <400> 716
 Phe His Gly Arg Ala Phe Ser Asp Pro Phe Val Glu Ala Glu Lys Ser
 1 5 10 15
 Asn Leu Ala Tyr Asp Ile Val Gln Leu Pro Thr Gly Leu Thr Gly Ile
 20 25 30
 50 Lys Val Thr Tyr Met Glu Glu Glu Arg Asn Phe Thr Thr Glu Gln Val
 35 40 45
 Thr Ala Met Leu Leu Ser Lys Leu Lys Glu Thr Ala Glu Ser Val Leu
 50 55 60
 55 Lys Lys Pro Val Val Asp Cys Val Val Ser Val Pro Cys Phe Tyr Thr
 65 70 75 80
 Asp Ala Glu Arg Arg Ser Val Met Asp Ala Thr Gln Ile Ala Gly Phe
 85 90 95
 Asn Cys Leu Arg Leu Met Asn Glu Thr Thr Ala Val Ala Leu Ala Tyr
 100 105 110
 60 Gly Ile Tyr Lys Gln Asp Leu Pro Ala Leu Glu Glu Lys Pro Arg Asn
 115 120 125
 Val Val Phe Val Asp Met Gly His Ser Ala Tyr Gln Val Ser Val Cys

130 135 140
 Ala Phe Asn Arg Gly Lys Leu Lys Val Leu Ala Thr Ala Phe Asp Thr
 145 150 155 160
 Thr Leu Gly Gly Arg Lys Phe Asp Glu Val Leu Val Asn His Phe Cys
 5 165 170 175
 Glu Glu Phe Gly Lys Lys Tyr Lys Leu Asp Ile Lys Ser Lys Ile Arg
 180 185 190
 Ala Leu Leu Arg Leu Ser Gln Glu Cys Glu Lys Leu Lys Lys Ile Asp
 195 200 205
 10 Glu Val Gln Met Leu Gln Ile Ser Leu Leu Ser Ile Glu Trp Phe Met
 210 215 220
 Asn Asp Val Asp Val Ser Trp Asn Tyr Glu Ile Xaa Xaa Asn Phe Xaa
 225 230 235 240
 Glu Lys Val Pro Met Ile Ser
 15 245

 <210> 717
 <211> 176
 <212> PRT
 20 <213> Homo sapiens

 <400> 717
 Leu Arg Leu Ser Gln Glu Cys Glu Lys Leu Lys Lys Leu Met Ser Ala
 1 5 10 15
 25 Asn Ala Ser Asp Leu Pro Leu Ser Ile Glu Cys Phe Met Asn Asp Val
 20 25 30
 Asp Val Ser Gly Thr Met Asn Arg Gly Lys Phe Leu Glu Met Cys Asn
 35 40 45
 Asp Leu Leu Ala Arg Val Glu Pro Pro Leu Arg Ser Val Leu Glu Gln
 50 55 60
 30 Thr Lys Leu Lys Lys Glu Asp Ile Tyr Ala Val Glu Ile Val Gly Gly
 65 70 75 80
 Ala Thr Arg Ile Pro Ala Val Lys Glu Lys Ile Ser Lys Phe Phe Gly
 85 90 95
 35 Lys Glu Leu Ser Thr Thr Leu Asn Ala Asp Glu Ala Val Thr Arg Gly
 100 105 110
 Cys Ala Leu Gln Cys Ala Ile Leu Ser Pro Ala Phe Lys Val Arg Glu
 115 120 125
 Phe Ser Ile Thr Asp Val Val Pro Tyr Pro Ile Ser Leu Arg Trp Asn
 40 130 135 140
 Ser Pro Xaa Glu Glu Gly Ser Ser Asp Cys Glu Val Phe Phe Lys Asn
 145 150 155 160
 His Ala Ala Pro Phe Ser Lys Val Leu Thr Phe Tyr Arg Lys Glu Pro
 165 170 175
 45
 <210> 718
 <211> 178
 <212> PRT
 <213> Homo sapiens
 50
 <400> 718
 Glu Asp Ala Phe Lys Ile Trp Val Ile Phe Asn Phe Leu Ser Glu Asp
 1 5 10 15
 Lys Tyr Pro Leu Ile Ile Val Ser Glu Glu Ile Glu Tyr Leu Leu Lys
 20 25 30
 55 Lys Leu Thr Glu Ala Met Gly Gly Trp Gln Gln Glu Gln Phe Glu
 35 40 45
 His Tyr Lys Ile Asn Phe Asp Ser Lys Asn Gly Leu Ser Ala Trp
 50 55 60
 60 Glu Leu Ile Glu Leu Ile Gly Asn Gly Gln Phe Ser Lys Gly Met Asp
 65 70 75 80
 Arg Gln Thr Val Ser Met Ala Ile Asn Glu Val Phe Asn Glu Leu Ile
 85 90 95

Leu Asp Val Leu Lys Gln Gly Tyr Met Met Lys Lys Gly His Arg Arg
 100 105 110
 Lys Asn Trp Thr Glu Arg Trp Phe Val Leu Lys Pro Asn Ile Ile Ser
 115 120 125
 5 Tyr Tyr Val Ser Glu Asp Leu Lys Asp Lys Lys Gly Asp Ile Leu Leu
 130 135 140
 Asp Glu Asn Cys Cys Val Glu Ser Leu Pro Asp Lys Asp Gly Lys Lys
 145 150 155 160
 10 Cys Leu Phe Leu Val Lys Cys Phe Asp Lys Thr Phe Glu Ile Ser Ala
 165 170 175
 Phe Arg

15 <210> 719
 <211> 107
 <212> PRT
 <213> Homo sapiens

20 <400> 719
 Phe Val Leu Arg Trp Ser Leu Thr Leu Leu Pro Lys Leu Glu Tyr Asn
 1 5 10 15
 Gly Ile Ile Ser Ala Arg Cys Asn Leu Arg Leu Pro Arg Ser Ser Asp
 20 25 30
 Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Ala Arg His
 25 35 40 45
 Gln Ala Gln Leu Ile Phe Phe Val Phe Leu Val Glu Thr Gly Phe His
 50 55 60
 Gln Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
 65 70 75 80
 30 Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Ala
 85 90 95
 Arg Pro Pro Lys Leu Phe Leu Leu Ser Leu Xaa
 100 105

35 <210> 720
 <211> 45
 <212> PRT
 <213> Homo sapiens

40 <400> 720
 Leu Tyr His Asn Ile His Asn Gly Glu Leu Tyr Asp Met Val Ala Glu
 1 5 10 15
 Ile Gly Pro Phe Met Cys Cys Phe Tyr Phe Thr Ser Asn Cys Arg Tyr
 20 25 30
 45 Arg Val Ile Asn Lys Ile His Pro Cys Leu Ser His Pro
 35 40 45

50 <210> 721
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 721
 Glu Glu Glu Glu Ile Glu Pro Phe Pro Glu Glu Arg Glu Asn Phe
 1 5 10 15
 Leu Gln Gln Leu Tyr Lys Phe Met Glu Asp Arg Gly Thr Pro Ile Asn
 20 25 30
 Lys Arg Pro Val Leu Gly Tyr Arg Asn Leu Asn Leu Phe Lys Leu Phe
 35 40 45
 60 Arg Leu Val His Lys Leu Gly Gly Phe Asp Asn Ile Glu Ser Gly Ala
 50 55 60
 Val Trp Lys Gln Val Tyr Gln Asp Leu Gly Ile Pro Val Leu Asn Ser
 65 70 75 80

Ala Ala Gly Tyr Asn Val Lys Cys Ala Tyr Lys Lys Tyr Leu Tyr Gly
 85 90 95
 Phe Glu Glu Tyr Cys Arg Ser Ala Asn Ile Glu Phe Gln Met Ala Leu
 100 105 110
 5 Pro Glu Lys Val Val Asn Lys Gln Cys Lys Glu Cys Glu Asn Val Lys
 115 120 125
 Glu Ile Lys Val Lys Glu Glu Asn Glu Thr Glu Ile Lys Glu Xaa Lys
 130 135 140
 10 Met Glu Glu Glu Arg Asn Ile Ile Pro Arg Glu Glu Lys Pro Ile Glu
 145 150 155 160
 Asp Glu Ile Glu Arg Lys Glu Asn Ile Lys Pro Ser Leu Gly Ser Lys
 165 170 175
 Lys Asn Leu Leu Xaa Ser Ile Pro Thr His Ser Asp Gln Glu Lys Glu
 180 185 190
 15 Val Asn Ile Lys Lys Thr Arg Arg Gln
 195 200

<210> 722
 <211> 205
 20 <212> PRT
 <213> Homo sapiens

<400> 722
 Lys Pro Leu Lys Xaa Phe Phe Gln Ile Leu Ile Xaa Gly Cys Xaa Phe
 1 5 10 15
 25 Pro Xaa Ala Ser Cys Pro Lys Gly Gly Xaa Glu Glu Ser Leu Gln
 20 25 30
 Thr Val Val Xaa Glu Glu Ser Cys Ser Pro Ser Val Glu Leu Glu Xaa
 35 40 45
 30 Xaa Pro Pro Val Asn Val Asp Ser Lys Pro Ile Glu Glu Lys Pro Val
 50 55 60
 Glu Val Asn Ala Glu Lys Gln Asn Phe Gln Val Val Ala Val Ile Gln
 65 70 75 80
 Cys Leu Asn Thr Pro Pro Thr Thr Pro Glu Ser Pro Ser Ser Val Thr
 85 90 95
 35 Val Thr Xaa Gly Ser Arg Gln Gln Ser Ser Val Thr Val Ser Glu Pro
 100 105 110
 Leu Ala Pro Asn Gln Glu Glu Val Arg Ser Ile Lys Ser Glu Thr Asp
 115 120 125
 40 Ser Thr Ile Glu Val Asp Ser Val Ala Gly Glu Leu Gln Asp Leu Gln
 130 135 140
 Ser Glu Gly Asn Ser Ser Pro Ala Gly Phe Asp Ala Ser Val Ser Ser
 145 150 155 160
 Ser Ser Ser Asn Gln Pro Glu Pro Glu His Pro Glu Lys Ala Cys Thr
 165 170 175
 45 Gly Gln Lys Arg Val Lys Asp Ala Gln Gly Gly Gly Ser Ser Lys
 180 185 190
 Lys Gln Lys Arg Ser His Lys Ala Thr Val Val Asn Asn
 195 200 205

<210> 723
 <211> 228
 <212> PRT
 <213> Homo sapiens

<400> 723
 Ile-Asn Lys Arg Pro Val Leu Gly Tyr Arg Asn Leu Asn Leu Phe Lys
 1 5 10 15
 60 Leu Phe Arg Leu Val His Lys Leu Gly Gly Phe Asp Asn Ile Glu Ser
 20 25 30
 Gly Ala Val Trp Lys Gln Val Tyr Gln Asp Leu Gly Ile Pro Val Leu
 35 40 45
 Asn Ser Ala Ala Gly Tyr Asn Val Lys Cys Ala Tyr Lys Lys Tyr Leu

50 55 60
 Tyr Gly Phe Glu Glu Tyr Cys Arg Ser Ala Asn Ile Glu Phe Gln Met
 65 70 75 80
 Ala Leu Pro Glu Lys Val Val Asn Lys Gln Cys Lys Glu Cys Glu Asn
 5 85 90 95
 Val Lys Glu Ile Lys Val Lys Glu Glu Asn Glu Thr Glu Ile Lys Glu
 100 105 110
 Ile Lys Met Glu Glu Glu Arg Asn Ile Ile Pro Arg Glu Glu Lys Pro
 115 120 125
 10 Ile Glu Asp Glu Ile Glu Arg Lys Glu Asn Ile Lys Pro Ser Leu Gly
 130 135 140
 Ser Lys Lys Asn Leu Leu Glu Ser Ile Pro Thr His Ser Asp Gln Glu
 145 150 155 160
 Lys Glu Val Asn Ile Lys Lys Pro Glu Asp Asn Glu Asn Leu Asp Asp
 15 165 170 175
 Lys Asp Asp Asp Thr Thr Arg Val Asp Glu Ser Leu Asn Ile Lys Val
 180 185 190
 Glu Ala Glu Glu Lys Ala Lys Ser Gly Asp Glu Thr Asn Lys Glu
 195 200 205
 20 Glu Asp Glu Asp Asp Glu Glu Ala Glu Glu Glu Glu Glu Glu Glu
 210 215 220
 Xaa Arg Arg Gly
 225
 25 <210> 724
 <211> 109
 <212> PRT
 <213> Homo sapiens
 30 <400> 724
 Thr Ser Phe Xaa His Phe Leu Asn Phe Ser Leu Gly Pro Xaa Arg Xaa
 1 5 10 15
 Leu Asp Phe Xaa Xaa Leu Val Asp Ser Thr Gln Thr Xaa Leu Pro Pro
 20 25 30
 35 Leu Val Gly His His His Leu His Pro Leu Leu Xaa Ser Ser Ser Ser
 35 40 45
 Ser Ser Ser Ser Ala Ser Ser Ser Ser Ser Ser Ser Leu Phe Val
 50 55 60
 Ser Ser Pro Asp Phe Ala Phe Ser Ser Ser Ala Ser Thr Phe Met Leu
 40 65 70 75 80
 Arg Asp Ser Ser Thr Leu Val Val Ser Ser Ser Leu Ser Ser Arg Phe
 85 90 95
 Ser Leu Ser Ser Gly Phe Leu Met Leu Thr Ser Phe Ser
 100 105
 45 <210> 725
 <211> 121
 <212> PRT
 <213> Homo sapiens
 50 <400> 725
 Asp Ile Xaa Ile Phe Asn Thr Ser Phe Ile His Phe Leu Ile Phe Pro
 1 5 10 15
 Ser Ser Ile Pro His Leu Asp Phe His Ala Trp Gly Ile Ala Leu Lys
 20 25 30
 55 Leu Leu Phe Leu Xaa Xaa Gly Ile Ile Ile Phe Ile Xaa Phe Phe Phe
 35 40 45
 Phe Leu Leu Leu Leu Xaa Phe Phe Ile Ile Phe Ile Phe Phe
 50 55 60
 60 Phe Ile Arg Xaa Ile Ser Xaa Phe Cys Phe Phe Phe Leu Ser Phe Tyr
 65 70 75 80
 Leu Tyr Xaa Glu Gly Phe Ile Tyr Pro Ser Xaa Val Ile Ile Phe Gly
 85 90 95

Ala Gln Ile Phe Ile Gly Phe Trp Phe Xaa Asn Xaa Asn Phe Phe Phe
 100 105 110
 Leu Xaa Xaa Met Gly Arg Xaa Xaa Phe
 115 120

5

<210> 726
 <211> 164
 <212> PRT
 <213> Homo sapiens

10

<400> 726
 Xaa Gly Xaa Lys Glu Ile Lys Xaa Glu Glu Xaa Gly Xaa Ile Xaa Xaa
 1 5 10 15
 Arg Glu Glu Lys Pro Ile Glu Asp Glu Ile Glu Arg Lys Glu Asn Ile
 20 25 30
 Lys Pro Xaa Xaa Gly Ser Lys Lys Asn Leu Leu Glu Xaa Xaa Pro Thr
 35 40 45
 His Xaa Xaa Gln Glu Lys Glu Val Xaa Ile Xaa Lys Pro Glu Ala Asn
 50 55 60
 Glu Asn Leu Gly Ala Lys Asp Asp Asp Xaa Thr Arg Val Asp Glu Ser
 65 70 75 80
 Leu Xaa Ile Lys Val Glu Ala Glu Glu Glu Lys Ala Lys Xaa Gly Asp
 85 90 95
 Xaa Thr Asn Lys Glu Glu Asp Glu Asp Asp Glu Glu Ala Glu Xaa Glu
 100 105 110
 Glu Glu Glu Glu Glu Glu Xaa Asp Glu Asp Asp Ala Xaa Xaa
 115 120 125
 Glu Glu Glu Glu Phe Glu Cys Tyr Pro Pro Gly Met Lys Val Gln Val
 130 135 140
 Arg Tyr Gly Arg Gly Lys Asn Gln Lys Met Tyr Glu Ala Ser Ile Lys
 145 150 155 160
 Asp Xaa Asp Val

35

<210> 727
 <211> 207
 <212> PRT
 <213> Homo sapiens

40

<400> 727
 Trp Phe Pro Ala Leu Val Val Cys Pro Asp Cys Ser Asp Glu Ile Ala
 1 5 10 15
 Val Lys Lys Asp Asn Ile Leu Val Arg Ser Phe Lys Asp Gly Lys Phe
 20 25 30
 Thr Ser Val Pro Arg Lys Asp Val His Glu Ile Thr Ser Asp Thr Ala
 35 40 45
 Pro Lys Pro Asp Ala Val Leu Lys Gln Ala Phe Glu Gln Ala Leu Glu
 50 55 60
 Phe His Lys Ser Arg Thr Ile Pro Ala Asn Trp Lys Thr Glu Leu Lys
 65 70 75 80
 Glu Asp Ser Ser Ser Glu Ala Glu Glu Glu Glu Glu Glu Asp
 85 90 95
 Asp Glu Lys Glu Lys Glu Asp Asn Ser Ser Glu Glu Glu Glu Ile
 100 105 110
 Glu Pro Phe Pro Glu Glu Arg Glu Asn Phe Leu Gln Gln Leu Tyr Lys
 115 120 125
 Phe Met Glu Asp Arg Gly Thr Pro Ile Asn Lys Arg Pro Val Leu Gly
 130 135 140
 Tyr Arg Asn Leu Asn Leu Phe Lys Leu Phe Arg Leu Val His Lys Leu
 145 150 155 160
 Gly Gly Phe Asp Asn Ile Glu Ser Gly Ala Val Trp Lys Gln Val Tyr
 165 170 175
 Gln Asp Leu Gly Ile Pro Val Leu Asn Ser Ala Ala Gly Tyr Asn Val

180 185 190
 Lys Cys Ala Tyr Lys Lys Tyr Leu Tyr Gly Phe Glu Gly Val Leu
 195 200 205

5 <210> 728
 <211> 221
 <212> PRT
 <213> Homo sapiens

10 <400> 728
 Met Leu Phe Ala Pro Cys Cys His Gln Cys Gly Glu Phe Ile Ile Gly
 1 5 10 15
 Arg Val Ile Lys Ala Met Asn Asn Ser Trp His Pro Glu Cys Phe Arg
 20 25 30
 15 Cys Asp Leu Cys Gln Glu Val Leu Ala Asp Ile Gly Phe Val Lys Asn
 35 40 45
 Ala Gly Arg His Leu Cys Arg Pro Cys His Asn Arg Glu Lys Ala Arg
 50 55 60
 Gly Leu Gly Lys Tyr Ile Cys Gln Lys Cys His Ala Ile Ile Asp Glu
 65 70 75 80
 20 Gln Pro Leu Ile Phe Lys Asn Asp Pro Tyr His Pro Asp His Phe Asn
 85 90 95
 Cys Ala Asn Cys Gly Lys Glu Leu Thr Ala Asp Ala Arg Glu Leu Lys
 100 105 110
 25 Gly Glu Leu Tyr Cys Leu Pro Cys His Asp Lys Met Gly Val Pro Ile
 115 120 125
 Cys Gly Ala Cys Arg Arg Pro Ile Glu Gly Arg Val Val Asn Ala Met
 130 135 140
 Gly Lys Gln Trp His Val Glu His Phe Val Cys Ala Lys Cys Glu Lys
 145 150 155 160
 30 Pro Phe Leu Gly His Arg His Tyr Glu Arg Lys Gly Leu Ala Tyr Cys
 165 170 175
 Glu Thr His Tyr Asn Gln Leu Phe Gly Asp Val Cys Phe His Cys Asn
 180 185 190
 35 Arg Val Ile Glu Xaa Asp Val Val Ser Ala Leu Asn Lys Ala Trp Cys
 195 200 205
 Val Asn Cys Phe Ala Cys Ser Thr Leu Gln His Leu Asn
 210 215 220

40 <210> 729
 <211> 114
 <212> PRT
 <213> Homo sapiens

45 <400> 729
 Leu Pro Phe Gln Leu Pro Cys Ile Gly Ser Gln Leu Leu Pro Ala Val
 1 5 10 15
 Gly Ala Val Glu Met Val Trp Met Val Gly Val Val Leu Glu Tyr Gln
 20 25 30
 50 Arg Leu Leu Ile Asp Asp Ser Met Ala Phe Leu Ala Asp Val Phe Pro
 35 40 45
 Lys Ala Ser Gly Phe Leu Thr Ile Met Thr Gly Ala Thr Gln Val Ser
 50 55 60
 Pro Ser Ile Leu Asp Lys Pro Asp Ile Cys Gln Asn Phe Leu Ala Glu
 65 70 75 80
 55 Val Thr Ala Glu Ala Leu Arg Met Pro Ala Val Ile His Gly Phe Asp
 85 90 95
 Asn Ser Ala Asn Asp Glu Phe Thr Thr Leu Met Thr Ala Arg Gly Lys
 100 105 110
 60 Glu His

<211> 191
 <212> PRT
 <213> Homo sapiens

5 <400> 730
 Arg Arg Pro Ala Ala Gly Leu Arg Asp Xaa Val Xaa Ser Ala Pro Arg
 1 5 10 15
 Gly Met Ala Ser Glu Gly Pro Xaa Glu Pro Glu Ser Glu Gly Ile Lys
 20 25 30
 10 Leu Ser Gly Ile Cys Gln Thr Ile Cys Pro Gln Ile Cys Arg Ala Gln
 35 40 45
 Cys Gly Met Val Arg Val Leu Arg Ser Met Cys Leu Pro Gln Leu Cys
 50 55 60
 Ser His Ile Leu Ser Val Cys Ser Gly Thr Thr Ser Asp Arg Asn Xaa
 15 65 70 75 80
 Tyr Ser Val Pro Gly Ser Gln Tyr Leu Tyr Asn Gln Pro Ser Cys Tyr
 85 90 95
 Arg Gly Phe Gln Thr Xaa Lys His Arg Asn Glu Asn Thr Cys Pro Leu
 100 105 110
 20 Pro Gln Glu Met Lys Ala Leu Phe Lys Lys Lys Thr Xaa Asp Glu Lys
 115 120 125
 Lys Thr Tyr Asp Gln Gln Lys Phe Asp Ser Glu Arg Ala Asp Gly Thr
 130 135 140
 Ile Ser Ser Glu Ile Lys Ser Ala Arg Gly Ser His His Leu Ser Ile
 25 145 150 155 160
 Tyr Ala Glu Asn Ser Leu Lys Ser Asp Gly Tyr His Lys Arg Thr Asp
 165 170 175
 Arg Lys Ser Arg Ile Ile Cys Lys Lys Trp Ile Tyr Leu Gln Thr
 180 185 190

<210> 731
 <211> 115
 <212> PRT
 <213> Homo sapiens

35 <400> 731
 Asp Gly Pro Leu Leu Ala Ser Val Thr Xaa Ser Xaa Pro Arg Leu Ala
 1 5 10 15
 Ala Trp Arg Arg Arg Gly Xaa Gly Ser Pro Lys Ala Arg Ala Ser Ser
 40 20 25 30
 Tyr Gln Ala Tyr Val Lys Pro Phe Val Pro Arg Phe Ala Gly Leu Asn
 35 40 45
 Val Ala Trp Leu Glu Ser Ser Glu Ala Cys Val Phe Pro Ser Ser Ala
 50 55 60
 45 Ala Thr Tyr Tyr Pro Phe Val Gln Glu Pro Pro Val Thr Glu Met Xaa
 65 70 75 80
 Thr Gln Cys Leu Ala Pro Ser Ile Phe Ile Thr Asn Pro Val Val Thr
 85 90 95
 Glu Val Phe Lys Gln Xaa Ser Ile Glu Met Arg Thr His Ala Leu Ser
 50 100 105 110
 His Lys Lys
 115

<210> 732
 <211> 139
 <212> PRT
 <213> Homo sapiens

60 <400> 732
 Ser Ile Ser Arg Phe Asn Ser Tyr Thr Asn Tyr Ile Val Met Lys Asn
 1 5 10 15
 Arg Arg Lys Ser Pro Lys Val Phe Phe Arg Pro Pro Leu Leu Thr Gln
 20 25 30

Asn Thr Asp Thr Gln Ala Arg Thr Leu Ile Asn Ser Asn Ser Ser Phe
 35 40 45
 Glu Arg Leu Lys Pro Pro Arg Ile Leu Leu Ala Pro Gly Tyr Ile His
 50 55 60
 5 Cys Met Leu Pro Asp Val Phe Ser Arg Phe Gln Cys Ser Val Ala Leu
 65 70 75 80
 Leu Phe Leu Ser Gly Leu Gly Gly His Leu Leu Gln Gly Ser Trp Gly
 85 90 95
 10 Pro Val Trp Val Gly Trp Glu Val Pro Glu Ala Trp Ala Leu Pro Pro
 100 105 110
 Ala Pro Ala Ala His Ser Pro Ala Trp Leu Asp Trp Ile Phe Leu Val
 115 120 125
 His Thr Xaa Leu Glu Thr Asp Xaa Phe Phe Glu
 130 135
 15
 <210> 733
 <211> 155
 <212> PRT
 <213> Homo sapiens
 20
 <400> 733
 Gly Gln Ser Leu Lys Lys Xaa Pro Gly Pro Arg Ala Pro Lys Glu Xaa
 1 5 10 15
 25 Arg Gly Leu Pro Pro Leu Xaa Pro Ile Thr Pro Pro Phe Pro Lys Ile
 20 25 30
 His Gln Pro Gln Ile Gln Gly Xaa Leu Gln Pro Asp Ala Leu Val Lys
 35 40 45
 Lys Val Asp Ala Cys Val Thr Asp Pro Thr Gln Arg Xaa Gly Pro Phe
 50 55 60
 30 Pro Xaa Pro Tyr Val Pro Glu Arg Ser Ser Gln Ala Met Leu Glu Asn
 65 70 75 80
 Val Gln Gln Glu Leu Val Gly Glu Pro Arg Pro Gln Ala Pro Pro Ser
 85 90 95
 35 Leu Pro Thr Gln Gly Pro Ser Cys Pro Ala Glu Asp Gly Pro Pro Ala
 100 105 110
 Leu Lys Glu Lys Glu Glu Pro His Tyr Ile Glu Ile Trp Lys Lys His
 115 120 125
 Leu Glu Ala Tyr Ser Gly Cys Thr Leu Glu Leu Glu Glu Ser Leu Glu
 130 135 140
 40 Ala Ser Thr Ser Gln Met Met Asn Leu Asn Leu
 145 150 155
 <210> 734
 <211> 126
 <212> PRT
 <213> Homo sapiens
 <400> 734
 50 Gly Glu Ala Gly His Trp Ala Gly Arg Ile Ser Arg Tyr Leu Asp Leu
 1 5 10 15
 Tyr Arg Trp Pro Gly Leu Ile Val His Gly Arg Leu Leu Gly Cys Ser
 20 25 30
 Glu Cys Lys Gly Ser Leu Ser Lys Pro Phe Ser Leu Val Leu Ser Gly
 35 40 45
 55 Val Arg Leu Phe Pro Phe Ser Phe Thr Ser Arg Ser Ser Ser Glu Glu
 50 55 60
 Ser Thr Gly Glu Val Val Leu Ala Ser Arg Ser Ser Cys Ser Cys Trp
 65 70 75 80
 Ala Arg Tyr Trp Ala Gly Phe Cys Leu Ala Ser Leu Ala Gln Trp Arg
 85 90 95
 60 Ser Ser Arg Cys Ser Arg Gly Lys Leu Ala Phe Lys Asn Gly Met Thr
 100 105 110
 Lys Gly Leu Ser Gly Lys Leu Val Ala Ser Cys Ser Leu Glu

115 120 125

<210> 735
 <211> 105
 5 <212> PRT
 <213> Homo sapiens

<400> 735
 Thr Lys Thr Gly Arg Gly Glu Leu Gln Thr Glu Pro Lys Lys Met Ala
 1 5 10 15
 Leu Thr Glu Ser Leu Cys Thr Gln Asn Ile Gln Ala Ser Asp His Ala
 20 25 30
 Leu Leu Ala Gln Ala Ser Gly Thr Ser Pro Asn Asn Gly Leu Ser Tyr
 35 40 45
 15 Gln Pro Asn Gly Leu Pro His Pro Thr Pro Pro Pro Pro Xaa His Tyr
 50 55 60
 Arg Leu Asp Asp Met Ala Ile Ala His His Tyr Arg Asp Ser Tyr Arg
 65 70 75 80
 His Pro Ser His Arg Gly Pro Xaa Gly Gln Lys Xaa Thr Tyr Gly Val
 20 85 90 95
 Ala Trp His Thr Ser Arg Arg Asn Asp
 100 105

<210> 736
 25 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 736
 Val Asn Ser Thr Leu Thr Ile Glu Glu Phe His Ser Lys Leu Gln Glu
 1 5 10 15
 Ala Thr Asn Phe Pro Leu Arg Pro Phe Val Ile Pro Phe Leu Lys Ala
 20 25 30
 Asn Leu Pro Leu Leu Gln Arg Glu Leu Leu His Cys Ala Arg Leu Ala
 35 35 40 45
 Lys Gln Asn Pro Ala Gln Tyr Leu Ala Gln His Glu Gln Leu Leu Leu
 50 55 60
 Asp Ala Ser Thr Thr Ser Pro Val Asp Ser Ser Glu Leu Leu Leu Asp
 65 70 75 80
 40 Val Asn Glu Asn Gly Lys Arg Arg Thr Pro Asp Arg Thr Lys Glu Asn
 85 90 95
 Gly Phe Asp Arg Glu Pro Leu His Ser Glu His Pro Ser Lys Arg Pro
 100 105 110
 Cys Thr Ile Ser Pro Gly Gln Arg Tyr Lys Ser Lys
 45 115 120

<210> 737
 <211> 149
 <212> PRT
 50 <213> Homo sapiens

<400> 737
 Leu Gln Val Cys Leu Pro Ala Gly Gly Pro Cys Xaa Val Cys Pro Gln
 1 5 10 15
 55 Lys Val Met Xaa Leu Leu Pro Ile Phe Xaa Leu Xaa Lys Met Xaa Pro
 20 25 30
 Pro Val Xaa Arg Ala Val Val Thr Ser Pro Trp Xaa Gly Phe Thr Ser
 35 40 45
 Leu Leu Xaa Xaa Xaa Asn Phe Gln Thr Asn Xaa Xaa Leu Gly Asn Pro
 50 55 60
 60 Pro Gly Gly Leu Glu Lys Pro Xaa Gln Val Ala Val Pro Pro Pro Pro
 65 70 75 80
 Leu Pro Phe Xaa Ala Xaa Gly Glu Pro Xaa Pro Ser Ile Phe Trp Ala

85 90 95
 Pro Phe Xaa Trp Gly Asn Xaa Val Gly Gly Leu Phe Xaa Ser Pro Leu
 100 105 110
 5 Lys Lys Xaa Gly Phe Leu Glu Xaa Pro Xaa Ile Xaa Xaa Xaa Pro Leu
 115 120 125
 Xaa Phe Leu Asp Gly Pro Pro Lys Phe Phe Phe Gln Xaa Phe Phe Gly
 130 135 140
 Pro Phe Phe Lys Xaa
 145
 10
 <210> 738
 <211> 202
 <212> PRT
 <213> Homo sapiens
 15
 <400> 738
 Val Asn Ser Thr Leu Thr Ile Glu Glu Phe His Ser Lys Leu Gln Glu
 1 5 10 15
 Ala Thr Asn Phe Pro Leu Arg Pro Phe Val Ile Pro Phe Leu Lys Ala
 20 20 25 30
 Asn Leu Pro Leu Leu Gln Arg Glu Leu Leu His Cys Ala Arg Leu Ala
 35 40 45
 Lys Gln Asn Pro Ala Gln Tyr Leu Ala Gln His Glu Gln Leu Leu Leu
 50 55 60
 25 Asp Ala Ser Thr Thr Ser Pro Val Asp Ser Ser Glu Leu Leu Leu Asp
 65 70 75 80
 Val Asn Glu Asn Gly Lys Arg Arg Thr Pro Asp Arg Thr Lys Glu Asn
 85 90 95
 Gly Phe Asp Arg Glu Pro Leu His Ser Glu His Pro Ser Lys Arg Pro
 100 105 110
 30 Cys Thr Ile Ser Pro Gly Gln Arg Tyr Ser Pro Asn Asn Gly Leu Ser
 115 120 125
 Tyr Gln Pro Asn Gly Leu Pro His Pro Thr Pro Pro Pro Gln His
 130 135 140
 35 Tyr Arg Leu Asp Asp Met Ala Ile Ala His His Tyr Arg Asp Ser Tyr
 145 150 155 160
 Arg His Pro Ser His Arg Asp Leu Arg Asp Arg Asn Arg Pro Met Gly
 165 170 175
 Leu His Gly Thr Arg Gln Glu Glu Met Ile Asp His Arg Leu Thr Asp
 180 185 190
 40 Arg Glu Trp Gly Arg Arg Val Glu Thr Ser
 195 200
 45
 <210> 739
 <211> 70
 <212> PRT
 <213> Homo sapiens
 50
 <400> 739
 Arg Gly Val Val Ser Met Val Glu Gly Val Pro Gly Val Val Asp Leu
 1 5 10 15
 Gly Val Ala Ala Gly Gly Val Ser Ile Gly Leu Pro Ala Pro Leu Leu
 20 25 30
 Gly Val Thr Lys Glu Leu Thr Ala Gly Val Ser Pro Cys Cys Trp Ala
 35 40 45
 55 Cys Xaa Val Cys Pro Gln Met Trp Met Gly Leu Xaa Pro Ser Phe Xaa
 50 55 60
 Ala Gly Gln Met Ser Pro
 65 70
 60
 <210> 740
 <211> 105
 <212> PRT

<213> Homo sapiens

<400> 740

5 Trp Ala His Leu Pro Ser Xaa Lys Ala Gly Xaa Lys Pro His Pro His
 1 5 10 15
 Leu Trp Thr Asp Xaa Ala Gly Pro Ala Ala Gly Arg His Pro Cys Ser
 20 25 30
 Gln Leu Phe Cys His Ala Gln Gln Arg Gly Trp Glu Pro Asp Gly His
 35 40 45
 10 Thr Thr Ser Ser His Ser Glu Val Asn His Pro Gly Asn Pro Phe His
 50 55 60
 His Arg Asp Asn Pro Ser Leu Asp Val Asn Ser Glu Leu Ser Glu Glu
 65 70 75 80
 Arg Gln His Asn Gln Arg Glu Thr Asn Ser Ser Ser Ser Asp Ala Gln
 85 90 95
 15 Ser Cys Phe Phe Cys Leu Phe Val Tyr
 100 105

<210> 741

<211> 267

<212> PRT

<213> Homo sapiens

<400> 741

25 Met Met Leu Pro Val Leu Thr His His Ile Arg Tyr His Gln Cys Leu
 1 5 10 15
 Met His Leu Asp Lys Leu Ile Gly Tyr Thr Phe Gln Asp Arg Cys Leu
 20 25 30
 Leu Gln Leu Ala Met Thr His Pro Ser His His Leu Asn Phe Gly Met
 35 40 45
 30 Asn Pro Asp His Ala Arg Asn Ser Leu Ser Asn Cys Gly Ile Arg Gln
 50 55 60
 Pro Lys Tyr Gly Asp Arg Lys Val His His Met His Met Arg Lys Lys
 65 70 75 80
 35 Gly Ile Asn Thr Leu Ile Asn Ile Met Ser Arg Leu Gly Gln Asp Asp
 85 90 95
 Pro Thr Pro Ser Arg Ile Asn His Asn Glu Arg Leu Glu Phe Leu Gly
 100 105 110
 Asp Ala Val Val Glu Phe Leu Thr Ser Val His Leu Tyr Tyr Leu Phe
 115 120 125
 40 Pro Ser Leu Glu Glu Gly Gly Leu Ala Thr Tyr Arg Thr Ala Ile Val
 130 135 140
 Gln Asn Gln His Leu Ala Met Leu Ala Lys Lys Leu Glu Leu Asp Arg
 145 150 155 160
 45 Phe Met Leu Tyr Ala His Gly Pro Asp Leu Cys Arg Glu Ser Asp Leu
 165 170 175
 Arg His Ala Met Ala Asn Cys Phe Glu Ala Leu Ile Gly Ala Val Tyr
 180 185 190
 Leu Glu Gly Ser Leu Glu Glu Ala Lys Gln Leu Phe Gly Arg Leu Leu
 195 200 205
 50 Phe Asn Asp Pro Asp Leu Arg Glu Val Trp Leu Asn Tyr Pro Leu His
 210 215 220
 Pro Leu Gln Leu Gln Glu Pro Asn Thr Asp Arg Gln Leu Ile Gly Asn
 225 230 235 240
 55 Phe Phe Gln Phe Tyr Lys Lys Leu Thr Glu Phe Glu Arg Asn Gln Leu
 245 250 255
 Gly Val Asn Phe Leu Leu Ile Gly Ser Asp Phe
 260 265

<210> 742

<211> 143

<212> PRT

<213> Homo sapiens

<400> 742
 Asn Pro Gly Pro Arg Tyr Gly Arg Thr Trp Ala Ser Arg Ser Xaa Pro
 1 5 10 15
 5 Ile Pro Thr Pro Ser Gln Lys Ala Leu Gly Val Ser Pro Gln Ala Xaa
 20 25 30
 Xaa Xaa Leu Leu Glu Ser Phe Ile Ala Ala Leu Xaa Ile Asp Lys Asp
 35 40 45
 Leu Xaa Tyr Val His Thr Phe His Glu Cys Leu Phe Leu Ser Xaa Ile
 10 50 55 60
 Lys Arg Val His Phe Glu Ser Gly Leu Glu Cys Pro Lys Ser Gln Leu
 65 70 75 80
 Gln Gln Cys Cys Leu Pro Leu Gly Arg Arg Lys Arg Ala Arg His Ser
 85 90 95
 15 Phe Val Gln Asp Ser Ala Asp Ser Gly Pro Ile Pro Cys Pro Asn Leu
 100 105 110
 His Cys Gly Cys Leu Phe Gln Gly Arg Lys Asn Arg Leu Trp Glu Arg
 115 120 125
 Thr Lys Tyr Ser Ala Ser Gly Asn Gly Ser Ser Asn Gly Cys Ala
 20 130 135 140

<210> 743
 <211> 87
 <212> PRT
 25 <213> Homo sapiens

<400> 743
 Lys Thr Gln Ala Gln Gly Thr Glu Glu Leu Gly His Pro Gly Val Xaa
 1 5 10 15
 30 Gln Tyr Pro Arg Gln Ala Lys Arg Pro Trp Gly Phe Arg Pro Lys Xaa
 20 25 30
 Trp Xaa Xaa Phe Trp Asn His Leu Leu Gln Arg Cys Xaa Leu Ile Arg
 35 35 40 45
 Ile Xaa Asn Met Phe Ile Leu Phe Met Asn Val Cys Phe Phe Xaa Arg
 50 55 60
 Leu Lys Glu Phe Ile Leu Asn Gln Asp Trp Asn Ala Pro Asn Pro Ser
 65 70 75 80
 Phe Ser Ser Val Ala Cys Pro
 85

<210> 744
 <211> 101
 <212> PRT
 40 <213> Homo sapiens

<400> 744
 Leu Leu Ser Val Leu Pro Phe Asp Glu Pro Leu Leu Met Gly His Leu
 1 5 10 15
 50 Gly Lys Ile Ile Phe Phe Lys Arg Ile His Cys Cys Ser His Phe Arg
 20 25 30
 Leu Leu Asn Thr Trp Ser Phe Pro Thr Ala Tyr Ser Phe Ser Leu Glu
 35 40 45
 Ile Asn Ser His Ser Val Gly Ser Gly Met Gly Trp Ala His Cys Leu
 50 55 60
 55 Gln Ser Leu Val Gln Arg Asn Val Trp Leu Phe Ser Phe Cys Leu Arg
 65 70 75 80
 Ala Ser Asn Thr Ala Glu Ala Gly Ile Trp Gly Ile Pro Ile Leu Ile
 85 90 95
 Gln Asn Glu Leu Phe
 100

<210> 745
 <211> 277

<212> PRT

<213> Homo sapiens

<400> 745

```

5  Ile Asn Thr Leu Ile Asn Ile Met Ser Arg Leu Gly Gln Asp Asp Pro
   1           5           10           15
   Thr Pro Ser Arg Ile Asn His Asn Glu Arg Leu Glu Phe Leu Gly Asp
           20           25           30
10  Ala Val Val Glu Phe Leu Thr Ser Val His Leu Tyr Tyr Leu Phe Pro
   35           40           45
   Ser Leu Glu Glu Gly Gly Leu Ala Thr Tyr Arg Thr Ala Ile Val Gln
   50           55           60
   Asn Gln His Leu Ala Met Leu Ala Lys Lys Leu Glu Leu Asp Arg Phe
   65           70           75           80
15  Met Leu Tyr Ala His Gly Pro Asp Leu Cys Arg Glu Ser Asp Leu Arg
           85           90           95
   His Ala Met Ala Asn Cys Phe Glu Ala Leu Ile Gly Ala Val Tyr Leu
           100          105          110
   Glu Gly Ser Leu Glu Glu Ala Lys Gln Leu Phe Gly Arg Leu Leu Phe
   115          120          125
20  Asn Asp Pro Asp Leu Arg Glu Val Trp Leu Asn Tyr Pro Leu His Pro
   130          135          140
   Leu Gln Leu Gln Glu Pro Asn Thr Asp Arg Gln Leu Ile Glu Thr Ser
   145          150          155          160
25  Pro Val Leu Gln Lys Leu Thr Glu Phe Glu Glu Ala Ile Gly Val Ile
           165          170          175
   Phe Thr His Val Arg Leu Leu Ala Arg Ala Phe Thr Leu Arg Thr Val
           180          185          190
   Gly Phe Asn His Leu Thr Leu Gly His Asn Gln Arg Met Glu Phe Leu
           195          200          205
30  Gly Asp Ser Ile Met Gln Leu Val Pro Gln Ser Thr Tyr Ser Phe Ile
   210          215          220
   Ser Gln Ile Ile Ile Glu Gly His Leu Thr Phe Val Ala Lys Ala Ser
   225          230          235          240
35  Leu Gly Glu Ile Asn Lys Asn Phe Arg Pro Lys Gly Asn Arg Lys Glu
           245          250          255
   Ala Trp Ala Leu Gln Gly Ser Thr Pro Ile Thr Gln Pro Asp Gln Glu
           260          265          270
   Pro Lys Lys Ala Cys
   275

```

<210> 746

<211> 187

<212> PRT

45 <213> Homo sapiens

<400> 746

```

Arg Thr Lys Ala Lys Lys Asp Lys Ala Gln Arg Xaa Xaa Xaa Xaa Xaa
1           5           10           15
50  Xaa Xaa Gly Xaa Ala Pro His Ser Glu Ser Asp Leu Pro Glu Gln Glu
   20           25           30
   Glu Glu Ile Leu Gly Ser Asp Asp Glu Gln Glu Asp Pro Asn Asp
   35           40           45
   Tyr Cys Lys Gly Gly Tyr His Leu Val Lys Ile Gly Asp Leu Phe Asn
   50           55           60
55  Gly Arg Tyr His Val Ile Arg Lys Leu Gly Trp Gly His Phe Ser Thr
   65           70           75           80
   Val Trp Leu Ser Trp Asp Ile Gln Gly Lys Lys Phe Val Ala Met Lys
           85           90           95
60  Xaa Val Lys Ser Ala Glu His Tyr Thr Glu Thr Ala Leu Asp Glu Ile
   100          105          110
   Xaa Leu Leu Lys Ser Val Arg Asn Ser Asp Pro Asn Asp Pro Asn Arg
   115          120          125

```

Glu Met Val Val Gln Leu Leu Asp Asp Phe Lys Ile Ser Gly Val Asn
 130 135 140
 Gly Thr His Ile Cys Met Val Phe Glu Val Leu Gly His His Leu Leu
 145 150 155 160
 5 Lys Trp Ile Ile Lys Ser Asn Tyr Xaa Gly Leu Pro Leu Pro Cys Xaa
 165 170 175
 Lys Lys Ile Ile Xaa Xaa Val Phe Thr Gly Xaa
 180 185

 10 <210> 747
 <211> 89
 <212> PRT
 <213> Homo sapiens

 15 <400> 747
 Ile Asp Pro Pro Phe Pro Phe Lys His Phe Pro Leu Pro Phe Ser
 1 5 10 15
 Gly Glu Ala Xaa Pro Ser Lys Val Xaa Arg Ser Cys Phe Phe Asn
 20 25 30
 20 Pro Thr Cys Ser Phe Gly Phe Ala Tyr Leu Thr Leu Xaa Xaa Ser Pro
 35 40 45
 Gln Pro Leu Gly Ile Leu Gly Glu Phe Gly Leu Gly Trp Ala Xaa Pro
 50 55 60
 Lys Thr Asn Gly Xaa Lys Cys Glu Thr Ala Ser Cys Xaa Xaa Pro Phe
 25 65 70 75 80
 Leu Pro Ile Arg Thr Ser Phe Lys Leu
 85

 <210> 748
 30 <211> 71
 <212> PRT
 <213> Homo sapiens

 <400> 748
 35 Xaa Leu Xaa Ser Met Asn Lys Arg Met Gly Ser Tyr Thr Phe Ile Ala
 1 5 10 15
 Xaa Phe Lys Lys Asp Ala Tyr Asn Leu Lys Asp Val Leu Met Gly Arg
 20 25 30
 Lys Gly Xaa Gly Gln Glu Ala Val Ser His Phe Xaa Pro Leu Val Phe
 40 35 40 45
 Gly Xaa Ala Gln Pro Arg Pro Asn Ser Pro Arg Met Pro Asn Gly Cys
 50 55 60
 Gly Asp Xaa Xaa Arg Val Lys
 65 70

 45 <210> 749
 <211> 254
 <212> PRT
 <213> Homo sapiens

 50 <400> 749
 Val Cys Lys Gly Ile Leu Glu Tyr Leu Thr Val Ala Glu Val Val Glu
 1 5 10 15
 Thr Met Glu Asp Leu Val Thr Tyr Thr Lys Asn Leu Gly Pro Gly Met
 55 20 25 30
 Thr Lys Met Ala Lys Met Ile Asp Glu Arg Gln Gln Glu Leu Thr His
 35 40 45
 Gln Glu His Arg Val Met Leu Val Asn Ser Met Asn Thr Val Lys Glu
 50 55 60
 60 Leu Leu Pro Val Leu Ile Ser Ala Met Lys Ile Phe Val Thr Thr Lys
 65 70 75 80
 Asn Ser Lys Asn Gln Gly Ile Glu Glu Ala Leu Lys Asn Arg Asn Phe
 85 90 95

Thr Val Glu Lys Met Ser Ala Glu Ile Asn Glu Ile Ile Arg Val Leu
 100 105 110
 Gln Leu Thr Ser Trp Asp Glu Asp Ala Trp Ala Ser Lys Asp Thr Glu
 115 120 125
 5 Ala Met Lys Arg Ala Leu Ala Ser Ile Asp Ser Lys Leu Asn Gln Ala
 130 135 140
 Lys Gly Trp Leu Arg Asp Pro Ser Ala Ser Pro Gly Asp Ala Gly Glu
 145 150 155 160
 Gln Ala Ile Arg Gln Ile Leu Asp Glu Ala Gly Lys Val Gly Glu Leu
 165 170 175
 10 Cys Ala Gly Lys Lys Arg Arg Glu Xaa Leu Gly Asn Leu Gln Asn Ala
 180 185 190
 Xaa Ala Asp Asp Cys Gln Ser Gly Leu Thr Ser Val Pro Arg Gly Gln
 195 200 205
 15 Gly Ser Leu Pro Xaa Gly Pro Cys Xaa Lys Ser Xaa Thr Xaa Tyr Xaa
 210 215 220
 Gln Gly Leu Gly Xaa Cys Ser Pro Ala Lys Xaa Glu Lys Ala Ser Phe
 225 230 235 240
 Gln Ser Trp Glu Ser Leu Ala His Xaa Lys Pro Lys His Leu
 245 250

<210> 750

<211> 82

<212> PRT

25 <213> Homo sapiens

<400> 750

Leu Phe Ser Arg Pro Ser Ala Tyr Leu Tyr Ser Cys Leu Pro Asp Ile
 1 5 10 15
 30 Asn Ala Ile Leu Met Pro Leu Lys Tyr Glu Ser Met Pro Lys Ile Thr
 20 25 30
 Cys Cys Phe Thr Lys Glu Arg Leu Leu Arg Gly Asn Lys Lys Asn His
 35 40 45
 Val Cys Ser Pro Gly Ser Ser Ser Gly Leu Arg His Trp Phe Thr Leu
 50 55 60
 35 Tyr Ala Gly Cys Ala Phe Leu Gln Tyr Gln Cys Ser Arg His Ser Glu
 65 70 75 80
 Ala Asn

<210> 751

<211> 162

<212> PRT

40 <213> Homo sapiens

<400> 751

Gln Lys Leu Val Ile Glu Asn Phe Asp Asp Glu Gln Ile Trp Gln Gln
 1 5 10 15
 50 Leu Glu Leu Gln Asn Glu Pro Ile Leu Gln Tyr Phe Gln Asn Ala Val
 20 25 30
 Ser Glu Thr Ile Asn Asp Glu Asp Ile Ser Leu Leu Pro Glu Ser Glu
 35 40 45
 Glu Gln Glu Arg Glu Glu Asp Gly Ser Glu Ile Glu Ala Asp Asp Lys
 50 55 60
 55 Glu Asp Leu Glu Asp Leu Glu Glu Glu Glu Val Ser Asp Met Gly Asn
 65 70 75 80
 Asp Asp Pro Glu Met Gly Glu Arg Ala Glu Asn Ser Ser Lys Ser Asp
 85 90 95
 60 Leu Arg Lys Ser Pro Val Phe Ser Asp Glu Asp Ser Asp Leu Asp Phe
 100 105 110
 Asp Ile Ser Lys Leu Glu Gln Gln Ser Lys Val Gln Asn Lys Gly Gln
 115 120 125
 Gly Lys Pro Arg Glu Lys Ser Ile Val Asp Asp Lys Phe Phe Lys Leu

130 135 140
 Ser Glu Met Glu Ala Tyr Leu Glu Asn Ile Glu Lys Glu Glu Glu Pro
 145 150 155 160
 Lys Arg

5

<210> 752

<211> 120

<212> PRT

10

<213> Homo sapiens

<400> 752

Ala Ser Ile Ser Glu Ser Leu Lys Asn Leu Ser Ser Thr Met Asp Phe
 1 5 10 15
 15 Ser Leu Gly Phe Pro Cys Pro Leu Phe Cys Thr Leu Leu Cys Cys Ser
 20 25 30
 Asn Leu Leu Ile Ser Lys Ser Arg Ser Glu Ser Ser Ser Leu Lys Thr
 35 40 45
 Gly Leu Phe Leu Arg Ser Asp Leu Leu Glu Phe Ser Ala Leu Ser Pro
 50 55 60
 20 Ile Ser Gly Ser Ser Leu Pro Met Ser Asp Thr Ser Ser Ser Ser Lys
 65 70 75 80
 Ser Ser Arg Ser Ser Leu Ser Ser Ala Ser Ile Ser Glu Pro Ser Ser
 85 90 95
 25 Ser Arg Ser Cys Ser Ser Leu Ser Gly Arg Arg Leu Ile Ser Ser Ser
 100 105 110
 Leu Ile Val Ser Leu Thr Ala Phe
 115 120

30

<210> 753

<211> 143

<212> PRT

<213> Homo sapiens

35

<400> 753

Xaa Ala Cys Pro Xaa Ile Lys Val Xaa Ser Asn Phe Pro Xaa Ile Xaa
 1 5 10 15
 Met Xaa Glu Xaa Ala Pro Val Xaa Val Ser Xaa Ala Ala Phe Xaa Ala
 20 25 30
 40 Xaa Xaa Xaa Xaa Xaa Xaa Lys Asn Lys Xaa Xaa Xaa Ile Lys Xaa Xaa
 35 40 45
 Ala Glu Lys Xaa Ala Pro Ala Lys Asn Xaa Xaa Xaa Xaa Lys Lys Lys
 50 55 60
 Xaa Gln Xaa Xaa Xaa Lys Ile Lys Xaa Lys Glu Lys Xaa Arg Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Thr Xaa Val Xaa Gln Ala Gly Lys Ser Ser Lys Xaa Xaa
 85 90 95
 Xaa Trp Xaa Lys Leu Lys Gln Xaa Xaa Lys Xaa Gly Lys Ala Ser Xaa
 100 105 110
 50 Ile Lys Asp Glu Gly Lys Xaa Xaa Xaa Leu Lys Xaa Xaa Gln Ala Phe
 115 120 125
 Phe Phe Xaa Phe Gln Asp Gln Val Lys Met Gln Ile Asn Xaa Ala
 130 135 140

55

<210> 754

<211> 66

<212> PRT

<213> Homo sapiens

60

<400> 754

Asn Gln Arg His Leu Glu Lys His Met Ile Asp Phe Phe Ala Ser Arg
 1 5 10 15
 Met Pro Glu Thr Leu His Leu Pro His Gly Thr Met Arg Gln Ser Pro

20 25 30
 Asn Pro Met Ser Ala Leu Glu Arg Tyr Ser Tyr Tyr Tyr Ser Cys Lys
 35 40 45
 Thr Ile Asn Gln Leu Ile His Ile Cys Thr Ala Gly Ser Pro Arg Asp
 5 50 55 60
 Lys Ile
 65

 <210> 755
 10 <211> 69
 <212> PRT
 <213> Homo sapiens

 <400> 755
 15 Asn Thr Ser Asn Ile Pro Phe Ile Ala Tyr Val Thr Tyr Ser Asn Glu
 1 5 10 15
 Tyr Asn Lys Leu Leu Phe Lys Lys Val Arg His Met Lys Ser Leu Leu
 20 20 25 30
 Cys Lys Phe His Val Ile Leu Lys Phe Leu Leu Ala Asn Lys Ser Ile
 20 35 40 45
 Cys Thr Ile Glu Pro Glu Thr Ser Arg Lys Ala His Asp Arg Phe Phe
 50 55 60
 Cys Lys Gln Asn Ala
 65
 25
 <210> 756
 <211> 91
 <212> PRT
 <213> Homo sapiens
 30
 <400> 756
 Trp Phe Cys Asn Cys Ser Ser Cys Ile Val Leu Met Gln Thr Leu
 1 5 10 15
 Asp Leu Val Thr Val Ser Leu Cys His Glu Val Asn Val Met Phe Gln
 35 20 25 30
 Ala Phe Cys Leu Gln Lys Asn Leu Ser Cys Ala Phe Leu Asp Val Ser
 35 40 45
 Gly Ser Ile Val Gln Met Leu Leu Leu Ala Asn Arg Asn Phe Lys Ile
 50 55 60
 40 Thr Trp Asn Leu His Lys Arg Leu Phe Met Cys Leu Thr Phe Leu Lys
 65 70 75 80
 Arg Ser Leu Leu Tyr Ser Leu Glu Tyr Val Thr
 85 90
 45
 <210> 757
 <211> 63
 <212> PRT
 <213> Homo sapiens
 50
 <400> 757
 Asn Ser Tyr Xaa Leu Ile Lys Xaa Phe Ala Leu Xaa Asn Xaa Xaa His
 1 5 10 15
 Xaa Xaa Lys Xaa Met Xaa Asp Phe Phe Ala Ser Xaa Met Pro Glu Thr
 20 25 30
 55 Leu His Leu Pro Tyr Gly Thr Met Arg Gln Xaa Pro Asn Pro Met Xaa
 35 40 45
 Ala Leu Xaa Arg Tyr Ser Tyr Phe Tyr Xaa Xaa Glu Thr Ile Asn
 50 55 60
 60
 <210> 758
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 758
 Asp Ser Xaa Gln Ile Gln Cys Xaa His Xaa Asn Asp Thr Ala Thr Phe
 1 5 10 15
 5 Thr Xaa Ala Lys Pro Leu Ile Xaa Leu Ser Xaa Tyr Val Gln Xaa Gly
 20 25 30
 Pro His Val Thr Lys Ser Xaa Ala Glu Xaa Phe Gly Ser Xaa Asn Val
 35 40 45
 10 Asp Pro Ala Gly Xaa Arg Xaa Ser Lys Leu Leu Xaa Pro Phe
 50 55 60

<210> 759
 <211> 68
 <212> PRT
 15 <213> Homo sapiens

<400> 759
 Thr Xaa Asn Ile Pro Phe Ile Ala Tyr Val Xaa Tyr Ser Asn Glu Tyr
 1 5 10 15
 20 Asn Lys Leu Leu Phe Lys Lys Val Arg Xaa Met Lys Ser Leu Leu Xaa
 20 25 30
 Lys Phe His Val Ile Leu Lys Phe Leu Xaa Ala Asn Lys Ser Xaa Cys
 35 40 45
 25 Thr Ile Xaa Xaa Xaa Thr Xaa Xaa Lys Xaa His Asp Xaa Phe Phe Cys
 50 55 60
 Lys Xaa Asn Ala
 65

<210> 760
 30 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 760
 35 Trp Phe Arg Xaa Cys Lys Ser Ser Cys Ile Val Xaa Met Xaa Thr Leu
 1 5 10 15
 Asp Leu Xaa Thr Val Ser Leu Cys His Lys Val Asn Val Met Phe Gln
 20 25 30
 40 Ala Xaa Cys Leu Gln Lys Asn Xaa Ser Xaa Ala Phe Xaa Xaa Xaa Xaa
 35 40 45
 Gly Xaa Ile Val Gln Xaa Leu Leu Ala Xaa Arg Asn Phe Lys Ile
 50 55 60
 Thr Trp Asn Leu Xaa Lys Arg Leu Phe Met Xaa Leu Thr Phe Leu Lys
 65 70 75 80
 45 Arg Ser Leu Leu Tyr Ser Leu Glu Tyr Xaa Thr
 85 90

<210> 761
 50 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 761
 55 His Phe Ser Leu Leu Met Pro Leu Gly Leu Gly Arg Arg Lys Lys Ala
 1 5 10 15
 Pro Pro Leu Val Glu Asn Glu Glu Ala Glu Pro Gly Arg Gly Gly Leu
 20 25 30
 Gly Val Gly Glu Pro Gly Pro Leu Gly Gly Gly Ser Gly
 35 40 45

60 <210> 762
 <211> 46
 <212> PRT

<213> Homo sapiens

<400> 762

5 Pro Asp Pro Pro Pro Arg Gly Pro Gly Ser Pro Thr Pro Ser Pro
 1 5 10 15
 Pro Arg Pro Gly Ser Ala Ser Ser Phe Ser Thr Arg Gly Gly Ala Phe
 20 25 30
 Phe Arg Arg Pro Ser Pro Ser Gly Met Ser Ser Glu Lys Trp
 35 40 45

<210> 763

<211> 181

<212> PRT

<213> Homo sapiens

<400> 763

15 Ala Ala Gln Gly Gln Trp Xaa Gly Gly Gly Pro Gly Pro Leu Pro Arg
 1 5 10 15
 Ser Asn Gly Thr Ile Pro Ser Leu Val Pro Ser Leu Ala Gly Val Pro
 20 20 25 30
 Gly Pro Pro Val Pro Cys Ser Pro Pro Thr Ser Val Gly Ser Gly Thr
 35 40 45
 Gly Arg Gly Gly Ile Ser Gln Ile Gly Gly Pro Pro Pro Pro Pro Pro
 50 55 60
 25 Leu Ser Thr Ile Ser Cys Gln Thr Gly Pro Ser Val Ser Leu Gly Pro
 65 70 75 80
 Trp Val Leu Phe Gly Gly His Xaa Leu Pro Ser Phe Leu Thr Gln Gly
 85 90 95
 Ile Gln Gly Arg Gly Leu Ser Phe Pro Pro Ala Asn Ala Ile Met Pro
 100 105 110
 30 Ser Pro Leu Leu Arg Gly Ala Pro Ser Leu Xaa Ser Leu Leu Pro Pro
 115 120 125
 His Leu Thr Xaa Val Cys Cys Glu Pro Arg Asn Leu Leu Pro Thr Ser
 130 135 140
 35 Asn Phe Ser Phe Gln Ala His Pro Trp Pro Arg Ala Gly Gly Arg Glu
 145 150 155 160
 Gly Arg Trp Arg Trp Val Phe Val Ser Glu Phe Ala Val Leu Asn Ile
 165 170 175
 Lys Asn Gln Ser Ala
 40 180

<210> 764

<211> 107

<212> PRT

<213> Homo sapiens

<400> 764

50 Pro Pro Asn Arg Thr Gln Gly Pro Arg Glu Thr Glu Gly Pro Val Trp
 1 5 10 15
 Gln Leu Met Val Glu Ser Gly Gly Gly Gly Gly Pro Pro Ile Trp
 20 25 30
 Leu Ile Pro Pro Leu Pro Val Pro Asp Pro Thr Glu Val Gly Gly Glu
 35 40 45
 Gln Gly Thr Gly Gly Pro Gly Thr Pro Ala Arg Leu Gly Thr Arg Glu
 50 55 60
 Gly Met Val Pro Leu Glu Arg Gly Lys Gly Pro Gly Pro Pro Pro Xaa
 65 70 75 80
 His Cys Pro Trp Ala Ala Xaa Leu Ala Gln Leu Glu Ala Xaa Val Leu
 85 90 95
 60 Xaa Xaa Xaa Pro Cys Trp Gly Pro Pro Gln Val
 100 105

<210> 765

<211> 114
 <212> PRT
 <213> Homo sapiens

5 <400> 765
 Ala Pro Gly Gly Ala Pro Ser Arg Asp Xaa Xaa Ser Gly Xaa Glu Pro
 1 5 10 15
 Pro Ala Glu Leu Xaa Lys Gln Pro Lys Asp Asn Xaa Arg Glu Val Gly
 20 25 30
 10 Gln Ala Pro Cys Pro Ala Pro Met Gly Pro Ser Pro Pro Trp Phe Pro
 35 40 45
 Val Trp Pro Gly Ser Pro Ala Pro Leu Cys Pro Val Pro His Leu Pro
 50 55 60
 Gln Leu Gly Gln Ala Gln Gly Gly Glu Gly Ser Ala Lys Leu Gly Gly
 15 65 70 75 80
 His Pro Arg Leu His His Phe Pro Pro Ser Ala Ala Lys Leu Val Pro
 85 90 95
 Leu Ser Pro Trp Gly Leu Gly Phe Cys Leu Gly Val Met Xaa Phe Leu
 100 105 110
 20 Val Ser

<210> 766
 <211> 129
 25 <212> PRT
 <213> Homo sapiens

 <400> 766
 Ser Ser Ser Asn Leu Arg Leu Ser Phe Leu Ile Asn Glu Asn Ile Leu
 30 1 5 10 15
 Gly Lys Cys Phe Arg Ser Gly Pro Ser Cys Ala Gly Pro Arg Ile Ser
 20 25 30
 Pro Leu Ala Ala Gln Tyr Glu Cys Pro Arg Pro Ser Leu Leu Ile Met
 35 40 45
 35 Ala Ser Val Pro Lys Thr Asn Lys Ile Glu Pro Arg Ser Tyr Ser Ile
 50 55 60
 Ile Pro Ser Cys Gly Ile Gln Ala Ala Arg Ala Cys Phe Glu His Ser
 65 65 70 75 80
 Asn Phe Phe Lys Val Asn Ala Ser Gly Pro Ala Gly His Ser Ala Lys
 40 85 90 95
 Ser Ile Glu Gly Ala Pro Arg Gly Lys Gly Arg Gly Arg Ala Val Ala
 100 105 110
 Arg Leu Ala Ala Asp Arg Pro Pro Ala Pro Lys Ile Gln Leu Arg Ala
 115 120 125
 45 Phe

<210> 767
 <211> 157
 50 <212> PRT
 <213> Homo sapiens

 <400> 767
 Lys Met Ala Ala Gly Phe Lys Thr Val Glu Pro Xaa Glu Tyr Tyr Arg
 55 1 5 10 15
 Arg Phe Leu Lys Glu Asn Cys Arg Pro Asp Gly Arg Glu Leu Gly Glu
 20 25 30
 Phe Arg Thr Thr Thr Val Asn Ile Gly Ser Ile Ser Thr Ala Asp Gly
 35 40 45
 60 Ser Ala Leu Val Lys Leu Gly Asn Xaa Thr Xaa Ile Cys Gly Val Lys
 50 55 60
 Ala Glu Phe Ala Ala Pro Ser Thr Asp Ala Pro Asp Lys Gly Tyr Val
 65 65 70 75 80

Val Pro Asn Val Asp Leu Pro Pro Leu Cys Ser Ser Arg Phe Arg Ser
 85 90 95
 Gly Pro Pro Gly Glu Glu Ala Gln Val Ala Ser Gln Phe Ile Ala Asp
 100 105 110
 5 Val Ile Glu Asn Ser Gln Ile Ile Gln Lys Glu Asp Leu Cys Ile Ser
 115 120 125
 Pro Gly Lys Leu Val Trp Val Leu Tyr Cys Asp Leu Ile Cys Leu Asp
 130 135 140
 Tyr Asp Gly Asn Ile Leu Asp Ala Cys Thr Phe Ala Leu
 10 145 150 155

<210> 768

<211> 171

<212> PRT

15 <213> Homo sapiens

<400> 768

Lys Met Ala Ala Gly Phe Lys Thr Val Glu Pro Xaa Glu Tyr Tyr Arg
 1 5 10 15
 20 Arg Phe Leu Lys Glu Asn Cys Arg Pro Asp Gly Arg Glu Leu Gly Glu
 20 25 30
 Phe Arg Thr Thr Thr Val Asn Ile Gly Ser Ile Ser Thr Ala Asp Gly
 35 40 45
 Ser Ala Leu Val Lys Leu Gly Asn Xaa Thr Xaa Ile Cys Gly Val Lys
 25 50 55 60
 Ala Glu Phe Ala Ala Pro Ser Thr Asp Ala Pro Asp Lys Gly Tyr Val
 65 70 75 80
 Val Pro Asn Val Asp Leu Pro Pro Leu Cys Ser Ser Arg Phe Arg Ser
 85 90 95
 30 Gly Pro Pro Gly Glu Glu Ala Gln Val Ala Ser Gln Phe Ile Ala Asp
 100 105 110
 Val Ile Glu Asn Ser Gln Ile Ile Gln Lys Glu Asp Leu Cys Ile Ser
 115 120 125
 Pro Gly Lys Leu Val Trp Val Leu Tyr Cys Asp Leu Ile Cys Leu Asp
 35 130 135 140
 Tyr Asp Gly Asn Ile Leu Asp Ala Cys Thr Phe Xaa Leu Leu Ala Ala
 145 150 155 160
 Leu Lys Asn Val Gln Val Ala Leu Lys Leu Leu
 165 170

40

<210> 769

<211> 112

<212> PRT

45 <213> Homo sapiens

<400> 769

Gln Leu Pro Glu Val Thr Ile Asn Glu Glu Thr Ala Leu Ala Glu Val
 1 5 10 15
 50 Asn Leu Lys Lys Lys Ser Tyr Leu Asn Ile Arg Thr His Pro Val Ala
 20 25 30
 Thr Ser Phe Ala Val Phe Asp Asp Thr Leu Leu Ile Val Asp Pro Thr
 35 40 45
 Gly Glu Glu Glu His Leu Ala Thr Gly Thr Leu Thr Ile Val Met Asp
 50 55 60
 55 Glu Glu Gly Lys Xaa Cys Cys Xaa His Lys Pro Gly Gly Ser Gly Leu
 65 70 75 80
 Thr Gly Ala Lys Leu Gln Asp Cys Met Ser Arg Ala Val Thr Arg His
 85 90 95
 Lys Glu Val Lys Lys Leu Met Asp Glu Val Ile Lys Ser Met Lys Pro
 60 100 105 110

<210> 770

<211> 87

<212> PRT

<213> Homo sapiens

<400> 770

5 Gln His Ala Gly Gly Ser Met Ser Gln Xaa Leu Gln Ala Lys Val Glu
 1 5 10 15
 Ile Phe Xaa Lys Met Phe Ile Ser Ala Gly Xaa Glu Gly Thr Glu Arg
 20 25 30
 Cys Thr Xaa Xaa Xaa Xaa Leu Gly Xaa Xaa Xaa Gly His Ala Ala Pro
 10 35 40 45
 Tyr Asn Arg Trp Ile Leu Xaa Glu Phe Xaa Xaa Asn Xaa Lys Val Xaa
 50 55 60
 Thr Glu Leu Ile Ser Tyr Phe Ser Xaa Thr Xaa Gly Thr Pro Ser Ala
 65 70 75 80
 15 Ser Gly Phe Thr Asn Glu Thr
 85

<210> 771

<211> 151

<212> PRT

<213> Homo sapiens

<400> 771

25 Phe Phe Ile Phe Cys Arg Tyr Glu Val Ser Pro Cys Cys Ser Gly Trp
 1 5 10 15
 Ser Gln Ala Pro Glu Leu Lys Gln Pro Ala Cys Leu Arg Leu Pro Lys
 20 25 30
 Cys Trp Asp His Lys His Glu Pro Leu Cys Pro Ala Trp His Leu Ile
 35 40 45
 30 Cys Glu Ser His Thr Ile Ser Asn Arg Asn Ile Lys Ile Pro Gly His
 50 55 60
 Phe Xaa Ser Pro Arg Leu Gly Gln Leu His Ser Leu Thr Cys Ser Val
 65 70 75 80
 Leu Pro Gln Ser Gln Cys Gly Thr Arg Leu Gln Ala Gln His Trp Gly
 35 85 90 95
 Cys Ala Asp Arg Ser Trp Phe Lys Ser Gln Leu Pro Ala Leu Glu Pro
 100 105 110
 Tyr Ser Asp Leu Ser Ala Pro Arg Leu Pro Gln Arg Val Leu Leu Gln
 115 120 125
 40 Pro Val Ser Gln Cys Thr Cys Pro Ala His Glu Leu Thr Glu Leu Met
 130 135 140
 Ala Ser Glu Ser Glu Cys Leu
 145 150

<210> 772

<211> 159

<212> PRT

<213> Homo sapiens

<400> 772

50 Glu Leu Pro Glu Lys Lys Lys Met Lys Tyr Ile Gln Asp Phe Gln Arg
 1 5 10 15
 Glu Lys Gln Glu Phe Glu Arg Asn Leu Ala Arg Phe Arg Glu Asp His
 20 25 30
 55 Pro Asp Leu Ile Gln Asn Ala Lys Ser Asp Ile Pro Glu Lys Pro
 35 40 45
 Lys Thr Pro Gln Gln Leu Trp Tyr Thr His Glu Lys Lys Val Tyr Leu
 50 55 60
 Lys Val Arg Pro Asp Glu Ile Met Arg Asp Tyr Ile Gln Lys His Pro
 60 65 70 75 80
 Glu Leu Asn Ile Ser Glu Glu Gly Ile Thr Lys Ser Thr Leu Thr Lys
 85 90 95
 Ala Glu Arg Gln Leu Lys Asp Lys Phe Asp Gly Arg Pro Thr Lys Pro

100 105 110
 Pro Pro Asn Ser Tyr Ser Leu Tyr Cys Ala Glu Leu Met Ala Asn Met
 115 120 125
 Lys Asp Val Pro Ser Thr Glu Ala His Gly Ala Val Gln Pro Ala Val
 130 135 140
 Glu Ala Ala Val Pro Glu Gly Glu Gly Arg Leu Xaa Gln Glu Val
 145 150 155

 <210> 773
 <211> 151
 <212> PRT
 <213> Homo sapiens

 <400> 773
 15 Lys Lys Glu Arg Lys Trp Gly Arg Pro Gly Gly Gln Gly Thr Glu His
 1 5 10 15
 Gly Gly Glu Thr Lys Val Val Ser Trp Gly Gly Glu Leu Leu Gly Ser
 20 25 30
 Pro Trp Leu Pro Trp Gly Gly Ala Glu Pro Gln Leu Glu Ser Glu Ser
 35 40 45
 Glu Glu Ser Pro Glu Glu Glu Glu Leu Glu Leu Leu Pro Ser Asp Ser
 50 55 60
 Leu Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
 65 70 75 80
 25 Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp Leu Asp Cys Arg
 85 90 95
 Val Val Arg Leu Asp Leu Gly Phe Gly Pro Arg Ser Leu Val Met Leu
 100 105 110
 Leu Arg Leu Leu Glu Met Tyr Ser Leu Tyr Ala Ala Arg Ser Trp Gly
 115 120 125
 Asp Arg Leu Leu Thr Gln Arg Ser Arg Cys Thr Leu Tyr Cys Phe Cys
 130 135 140
 Cys Ser Ser Ala Ser Phe Leu
 145 150
 35
 <210> 774
 <211> 140
 <212> PRT
 <213> Homo sapiens
 40
 <400> 774
 Gly Gly Gly Ala Gly Ala Ala Ala Leu Gly Leu Ile Ile Phe Ile Leu
 1 5 10 15
 Ile Val Ile Leu Val Val Val Phe Val Leu Val Ile Leu Ile Leu Phe
 20 25 30
 Ile Ile Leu Leu Gly Leu Arg Leu Gly Leu Gln Ser Ser Pro Ala Gly
 35 40 45
 Phe Gly Val Trp Ala Ser Gln Leu Gly His Ala Leu Thr Phe Ile Gly
 50 55 60
 Asp Val Leu Phe Ile Cys Cys Thr Val Leu Gly Arg Gln Ala Leu Asn
 65 70 75 80
 Pro Glu Val Gln Val His Leu Val Leu Leu Leu Leu Leu Leu Gly Gln
 85 90 95
 Leu Phe Val Ser Ala Pro Ser Gly Ser Gly Arg Cys Ala Ala Ser Asp
 100 105 110
 55 Cys Arg Ser Pro Pro Cys Ala Pro Ser Ala Ala Gly Gly Ser Xaa Pro
 115 120 125
 His Trp Asn Ser Ser Ser Trp Glu Glu Leu Xaa Xaa
 130 135 140
 60
 <210> 775
 <211> 130
 <212> PRT

<213> Homo sapiens

<400> 775

5 Arg Ser Ala Trp Trp Arg Ser Ala Val Ala Gly Ser Ala Ser Pro Arg
 1 5 10 15
 Ala Arg Arg Ser Thr Tyr Lys Lys Leu Ala Glu Glu Gln Gln Lys Gln
 20 25 30
 Tyr Lys Val His Leu Asp Leu Trp Val Lys Ser Leu Ser Pro Gln Asp
 35 40 45
 10 Arg Ala Ala Tyr Lys Glu Tyr Ile Ser Asn Lys Arg Lys Ser Met Thr
 50 55 60
 Lys Leu Arg Gly Pro Asn Pro Lys Ser Ser Arg Thr Thr Leu Gln Ser
 65 70 75 80
 Lys Ser Glu Ser Glu Glu Asp Asp Glu Glu Asp Glu Asp Asp Glu Asp
 15 85 90 95
 Glu Asp Asp Asp Glu Asp Asp Asp Glu Asp Glu Asp Asn Glu Ser Glu
 100 105 110
 Gly Ser Ser Ser Ser Ser Ser Ser Ser Gly Asp Ser Ser Asp Ser Asp
 115 120 125
 20 Ser Asn
 130

<210> 776

<211> 165

<212> PRT

<213> Homo sapiens

<400> 776

30 Pro Pro Ala Leu Pro Leu Pro Val Pro Arg Ser Ala Arg His Glu Ile
 1 5 10 15
 Pro Arg Arg Gly Ala Thr Arg Gly Arg Val Gly Glu Ala Gln Arg Gln
 20 25 30
 Pro Leu Pro Ala Met Glu Glu Glu Ala Arg Gly Ala His Leu Arg Pro
 35 35 40 45
 Pro Glu Pro Val Pro Arg Gln Pro Pro Arg Ala Pro Gln Gly Ala Ala
 50 55 60
 Leu Pro Leu His Pro Gln Gly Gly Leu Arg Gly Ala His Gly Gln Val
 65 70 75 80
 Arg Val Leu His His Arg His His Arg Pro Gln Gly Asp Arg Leu Pro
 40 85 90 95
 Leu Arg Gly Arg Glu Leu Leu Glu Arg Gly His Arg Ala Gly Ala His
 100 105 110
 Arg Phe Pro Glu Pro Pro Arg Pro Ala Gly Leu Ser Gln Pro Pro Gly
 115 120 125
 45 Thr His Arg Pro Ala Ala Pro Ala Glu Asp Ala Val Ala Ala Ala Ala
 130 135 140
 Ala Ala Pro Ser Glu Pro Ser Glu Pro Ser Arg Pro Ser Pro Gln Pro
 145 150 155 160
 Lys Pro Arg Thr Pro
 50 165

<210> 777

<211> 158

<212> PRT

<213> Homo sapiens

<400> 777

60 Ala Cys Ser Pro Pro Ala Pro Ala Arg Ala Pro Arg Ser Cys Ala Ser
 1 5 10 15
 Thr Pro Ser Ser Arg Trp Thr Ala Trp Ser Ala Arg Ala Ser Thr Cys
 20 25 30
 Thr Ser Pro Ser Ser Pro Pro Thr Thr Arg Arg Ser Thr Ser Ala Ala
 35 40 45

Arg Ala Arg Ala Ala Gly Thr Arg Pro Ser Arg Trp Arg Ser Ser Ile
 50 55 60
 Ser Arg Thr Ala Ala Pro Cys Arg Thr Phe Ala Ala Arg Asn Ala
 65 70 75 80
 5 Pro Thr Arg Arg Thr Arg Arg Gly Arg Arg Gly Cys Arg Gly Arg Arg
 85 90 95
 Thr Leu Arg Ala Leu Gly Ala Leu Gln Ala Ile Pro Ala Ala Gln Thr
 100 105 110
 10 Pro His Ala Met Ser Pro Pro Arg Ala Ile Arg Trp Thr Ser Arg Thr
 115 120 125
 Glu Ala Arg Thr Trp Pro Ala Leu Leu Gln Pro Cys Ser Xaa Lys Asn
 130 135 140
 Xaa Pro Cys Ala Arg Ile Leu Ala Ser Val Gln Arg Ala Pro
 145 150 155
 15
 <210> 778
 <211> 179
 <212> PRT
 <213> Homo sapiens
 20
 <400> 778
 Arg Pro His Cys Arg Ser Gln Ser Arg Ala Arg His Asp Met Lys Ser
 1 5 10 15
 25 Pro Asp Glu Val Leu Arg Glu Gly Glu Leu Glu Lys Arg Ser Asp Ser
 20 25 30
 Leu Phe Gln Leu Trp Lys Lys Lys Arg Gly Val Leu Thr Ser Asp Arg
 35 40 45
 Leu Ser Leu Phe Pro Ala Ser Pro Arg Ala Arg Pro Lys Glu Leu Arg
 50 55 60
 30 Phe His Ser Ile Leu Lys Val Asp Cys Val Glu Arg Thr Gly Lys Tyr
 65 70 75 80
 Val Tyr Phe Thr Ile Val Thr Thr Asp His Lys Glu Ile Asp Phe Arg
 85 90 95
 Cys Ala Gly Glu Ser Cys Trp Asn Ala Ala Ile Ala Leu Ala Leu Ile
 100 105 110
 35 Asp Phe Gln Asn Arg Arg Ala Leu Gln Asp Phe Arg Ser Arg Gln Glu
 115 120 125
 Arg Thr Asp Pro Pro His Pro Pro Arg Thr Pro Trp Leu Pro Arg Pro
 130 135 140
 40 Pro His Pro Pro Ser Pro Arg Ser Pro Pro Gly His Pro Arg Ser Pro
 145 150 155 160
 Asn Pro Ala Arg His Glu Pro Ala Ala Gly His Thr Leu Asp Glu Ser
 165 170 175
 45 Asp Arg Gly
 50
 <210> 779
 <211> 179
 <212> PRT
 <213> Homo sapiens
 55
 <400> 779
 Pro Arg Ser Asp Ser Ser Ser Val Trp Pro Ala Ala Gly Ser Trp Arg
 1 5 10 15
 60 Ala Gly Phe Gly Leu Arg Gly Trp Pro Gly Gly Leu Arg Gly Leu Gly
 20 25 30
 Gly Cys Gly Gly Arg Gly Ser His Gly Val Leu Gly Gly Cys Gly Gly
 35 40 45
 Ser Val Arg Ser Trp Arg Leu Arg Lys Ser Cys Arg Ala Arg Arg Phe
 50 55 60
 Trp Lys Ser Met Ser Ala Ser Ala Met Ala Ala Phe Gln Gln Leu Ser
 65 70 75 80
 Pro Ala Gln Arg Lys Ser Ile Ser Leu Trp Ser Val Val Thr Met Val

85 90 95
 Lys Tyr Thr Tyr Leu Pro Val Arg Ser Thr Gln Ser Thr Leu Arg Met
 100 105 110
 Glu Trp Lys Arg Ser Ser Leu Gly Arg Ala Arg Gly Leu Ala Gly Asn
 115 120 125
 Arg Leu Arg Arg Ser Glu Val Ser Thr Pro Arg Phe Phe Phe His Ser
 130 135 140
 Trp Lys Arg Leu Ser Leu Arg Phe Ser Asn Ser Pro Ser Arg Ser Thr
 145 150 155 160
 10 Ser Ser Gly Asp Phe Met Ser Cys Arg Ala Arg Asp Trp Glu Arg Gln
 165 170 175
 Cys Gly Arg

15 <210> 780
 <211> 134
 <212> PRT
 <213> Homo sapiens

20 <400> 780
 Ala Trp Arg Cys Thr Arg Val Ser Glu Ala Leu Leu Leu Ser Ala Arg
 1 5 10 15
 Gln Glu Asp Val Cys Arg Arg Arg Ser Ala Gly Pro Val Ala Phe Thr
 20 25 30
 25 Val Leu Cys Leu Ser Arg Pro Ser Arg Leu Pro Thr Ala Ala Ile Pro
 35 40 45
 Pro Tyr Ser Pro Ser Gly Thr Trp Arg Trp Ser Val Gln Ala Leu Ala
 50 55 60
 Cys Asn Gln His Xaa Ser Leu Gly Leu Val Gln Glu Gly Ser Ser Gly
 65 70 75 80
 30 Lys Ala Pro Ser Ser Phe Pro Ala Arg Leu Gly Pro Ala Thr Val Arg
 85 90 95
 Leu Arg Xaa Gly Leu Lys Glu Xaa Ala Gly Pro Glu Phe Pro Leu Ala
 100 105 110
 35 Arg Xaa Glu Leu Xaa Thr Lys Gly Arg Arg Xaa Pro Pro Gly Arg Xaa
 115 120 125
 Xaa Val Pro Pro Leu Ala
 130

40 <210> 781
 <211> 130
 <212> PRT
 <213> Homo sapiens

45 <400> 781
 Gly Gly Met Ala Ala Val Gly Ser Leu Leu Gly Arg Leu Arg Gln Ser
 1 5 10 15
 Thr Val Lys Ala Thr Gly Pro Ala Leu Arg Arg Leu His Thr Ser Ser
 20 25 30
 50 Trp Arg Ala Asp Ser Ser Arg Ala Ser Leu Thr Arg Val His Arg Gln
 35 40 45
 Ala Tyr Ala Arg Leu Tyr Pro Val Leu Leu Val Lys Gln Asp Gly Ser
 50 55 60
 Thr Ile His Ile Arg Tyr Arg Glu Pro Arg Arg Met Leu Ala Met Pro
 65 70 75 80
 55 Ile Asp Leu Asp Thr Leu Ser Pro Glu Glu Arg Arg Ala Arg Leu Arg
 85 90 95
 Lys Arg Glu Ala Gln Leu Gln Ser Arg Lys Glu Tyr Glu Gln Glu Leu
 100 105 110
 60 Ser Asp Asp Leu His Val Glu Arg Tyr Arg Gln Xaa Trp Thr Arg Thr
 115 120 125
 Lys Lys
 130

<210> 782
 <211> 56
 <212> PRT
 5 <213> Homo sapiens

 <400> 782
 Asn Asp Val Pro Asn Gln Phe Leu Val Tyr Ser Phe Pro Lys Ser Lys
 1 5 10 15
 10 Ile Thr Lys Val Leu Lys Val His Lys Thr Asp Leu His Leu Cys Ile
 20 25 30
 Pro Phe Gln Ile Asn Pro Lys Ser Met Tyr Ser Met Phe Asn Ser Met
 35 40 45
 Gln Tyr Ala Lys Ala Leu Cys Cys
 15 50 55

 <210> 783
 <211> 55
 <212> PRT
 20 <213> Homo sapiens

 <400> 783
 Asn Asp Val Pro Asn Gln Phe Leu Val Tyr Ser Phe Pro Lys Ser Lys
 1 5 10 15
 25 Ile Thr Lys Val Leu Lys Val His Lys Thr Asp Leu His Leu Cys Ile
 20 25 30
 Pro Phe Gln Ile Asn Pro Lys Ser Met Tyr Ser Met Phe Asn Ser Met
 35 40 45
 Gln Tyr Ala Lys Ala Leu Cys
 30 50 55

 <210> 784
 <211> 259
 <212> PRT
 35 <213> Homo sapiens

 <400> 784
 Lys Leu Ser Ala Leu Phe Ile Asn Leu Ile Ser Asp Pro Ser Arg Trp
 1 5 10 15
 40 Val Arg Gln Ala Ala Phe Gln Ser Leu Gly Pro Phe Ile Ser Thr Phe
 20 25 30
 Ala Asn Pro Ser Ser Ser Gly Gln Tyr Phe Lys Glu Glu Ser Lys Ser
 35 40 45
 Ser Glu Glu Met Ser Val Glu Asn Lys Asn Arg Thr Arg Asp Gln Glu
 45 50 55 60
 Ala Pro Glu Asp Val Gln Val Arg Pro Glu Asp Thr Pro Ser Asp Leu
 65 70 75 80
 Ser Val Ser Asn Ser Ser Val Ile Leu Glu Asn Thr Met Glu Asp His
 85 90 95
 50 Ala Ala Glu Ala Ser Gly Lys Pro Leu Gly Glu Ile Ser Val Pro Leu
 100 105 110
 Asp Ser Ser Leu Leu Cys Thr Leu Ser Ser Glu Ser His Gln Glu Ala
 115 120 125
 Ala Ser Asn Glu Asn Asp Lys Lys Pro Gly Asn Tyr Lys Ser Met Leu
 130 135 140
 55 Arg Pro Glu Val Gly Thr Thr Ser Gln Asp Ser Ala Leu Leu Asp Gln
 145 150 155 160
 Glu Leu Tyr Asn Ser Phe His Phe Trp Arg Thr Pro Leu Pro Glu Ile
 165 170 175
 60 Asp Leu Asp Ile Glu Leu Glu Gln Asn Ser Gly Gly Lys Pro Ser Pro
 180 185 190
 Glu Gly Pro Glu Glu Glu Ser Glu Gly Pro Val Pro Ser Ser Pro Asn
 195 200 205

Ile Thr Met Ala Thr Arg Lys Glu Leu Glu Glu Met Ile Glu Asn Leu
 210 215 220
 Glu Pro Pro Ile Asp Asp Pro Asp Gly Xaa Ala Gln Val Gly Ser Ala
 225 230 235 240
 5 Val Arg Cys Thr Thr Cys Phe Gln Xaa Trp Asp Xaa His Glu Glu Xaa
 245 250 255
 His Arg Phe

10 <210> 785
 <211> 103
 <212> PRT
 <213> Homo sapiens

15 <400> 785
 Ile Leu Phe Gly Gln Glu Asn Leu Xaa His Asn Ser Leu Asn Ser Met
 1 5 10 15
 Ile Lys Asp Cys Ser Thr Pro Lys Ser Gly His Arg Tyr Val Gln Tyr
 20 25 30
 Val Lys Lys Leu His Leu Arg Ala Asp His Asp Gln Val Lys Asn Thr
 35 40 45
 Arg His Thr Leu Tyr Arg Leu Ile Asn Phe Leu Gln Val Met Thr Ser
 50 55 60
 Met Lys Lys Ser Asp Thr Asp Thr Gln Gln Pro Phe Cys Lys Cys Val
 25 65 70 75 80
 Gln Gln Tyr Ala Ala Leu Lys Ser Leu Ser Gln Ser Tyr Leu Xaa Trp
 85 90 95
 His Gln Xaa Leu Xaa Glu Met
 100

30 <210> 786
 <211> 218
 <212> PRT
 <213> Homo sapiens

35 <400> 786
 Glu Leu Glu Asp Lys Val Ala Ala Cys Gln Lys Glu Gln Ala Asp Phe
 1 5 10 15
 Leu Pro Arg Ile Glu Glu Thr Lys Trp Glu Val Cys Gln Lys Ala Gly
 40 20 25 30
 Glu Ile Ser Leu Leu Lys Gln Gln Leu Lys Asp Ser Gln Ala Asp Val
 35 40 45
 Ser Gln Lys Leu Ser Glu Ile Val Gly Leu Arg Ser Gln Leu Arg Glu
 50 55 60
 Gly Arg Ala Ser Leu Arg Glu Lys Glu Glu Gln Leu Leu Ser Leu Arg
 45 65 70 75 80
 Asp Ser Phe Ser Ser Lys Gln Ala Ser Leu Glu Leu Gly Glu Gly Glu
 85 90 95
 Leu Pro Ala Ala Cys Leu Lys Pro Ala Leu Thr Pro Val Asp Pro Ala
 50 100 105 110
 Glu Pro Gln Asp Ala Leu Ala Thr Cys Glu Ser Asp Glu Ala Lys Met
 115 120 125
 Arg Arg Gln Ala Gly Val Ala Ala Ala Ala Ser Leu Val Ser Val Asp
 130 135 140
 55 Gly Glu Ala Glu Ala Gly Gly Glu Ser Gly Thr Arg Ala Leu Arg Arg
 145 150 155 160
 Glu Val Gly Arg Leu Gln Ala Glu Leu Ala Ala Glu Arg Arg Ala Arg
 165 170 175
 Glu Arg Gln Gly Ala Ser Phe Ala Glu Glu Arg Arg Val Trp Leu Glu
 180 185 190
 60 Glu Lys Glu Lys Val Ile Glu Tyr Pro Glu Ser Ser Leu Gln Leu Xaa
 195 200 205
 Leu Arg Xaa Arg Cys Thr Asn Arg Asn Pro

210

215

5

<210> 787
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 787

10 Xaa Gln Leu Gln Ala Ala Phe Trp Val Leu Asp His Leu Leu Leu Phe
 1 5 10 15
 Leu Lys Pro Asn Ala Ala Leu Leu Gly Glu Ala Gly Thr Leu Ala Leu
 20 25 30
 Pro Gly Pro Pro Leu Ser Arg Gln Leu Gly Leu Gln Pro Pro His Leu
 35 40 45
 15 Pro Pro Gln Gly Pro Arg Pro Ala Leu Pro Ala Ser Leu Arg Leu Pro
 50 55 60
 Val His Gly Asn Gln Gly Gly Ser Gly His Pro Gly Leu Thr Ala
 65 70 75 80
 His Leu Ser Leu Val Ala Leu Ala Gly Gly Gln Ser Ile Leu Trp Leu
 85 90 95
 20 Gly Arg Val His Gly Gly Gln Arg Arg Leu Glu Ala Gly Gly Arg Gln
 100 105 110
 Leu Ala Phe Ala Gln Leu Gln Ala Gly Leu Leu Ala Ala Glu Gly Val
 115 120 125
 25 Pro Gln Ala Glu Gln Leu Leu Leu Leu Pro Gln Arg Ser Pro Ala
 130 135 140
 Leu Pro Gln Leu Arg Ala Gln Ser His Asp Leu Thr Gln Leu Leu Arg
 145 150 155 160
 His Ile Arg Leu Arg Val Leu Gln Leu Leu Leu Gln Glu Gly Asp Leu
 165 170 175
 30 Ala Ser Leu Leu Ala His Leu Pro Leu Ser Phe Leu Tyr Pro Gly Gln
 180 185 190
 Glu Val Gly Leu Leu Leu Leu Ala Gly Gly His Leu Val Leu Gln Leu
 195 200 205

35

<210> 788
 <211> 130
 <212> PRT
 <213> Homo sapiens

40

<400> 788

Arg Arg Ile Leu Ala Ser Ser Leu Ser Gln Val Ala Arg Ala Ser Cys
 1 5 10 15
 45 Gly Ser Ala Gly Ser Thr Gly Val Ser Ala Gly Leu Arg Gln Ala Ala
 20 25 30
 Gly Ser Ser Pro Ser Pro Ser Ser Arg Leu Ala Cys Leu Leu Leu Lys
 35 40 45
 Glu Ser Arg Arg Leu Ser Ser Cys Ser Ser Phe Ser Arg Ser Glu Ala
 50 55 60
 Arg Pro Ser Arg Ser Cys Glu Arg Ser Pro Thr Ile Ser Leu Asn Phe
 65 70 75 80
 Cys Asp Thr Ser Ala Cys Glu Ser Phe Ser Cys Cys Phe Arg Arg Glu
 85 90 95
 Ile Ser Pro Ala Phe Trp His Thr Ser His Leu Val Ser Ser Ile Arg
 100 105 110
 55 Gly Arg Lys Ser Ala Cys Ser Phe Trp Gln Ala Ala Thr Leu Ser Ser
 115 120 125
 Ser Ser
 130

60

<210> 789
 <211> 252
 <212> PRT

<213> Homo sapiens

<400> 789

5 Val Pro Gln Gly Tyr Pro Gly Gly Val Pro Thr Phe Phe Arg Asp Met
 1 5 10 15
 Lys Gln Gly Leu Leu Ser Val Gly Ile Gly Gly Arg Glu Ser Arg Asn
 20 25 30
 Gly Cys Leu Asp Val Glu Lys Asp Cys Ser Ile Thr Lys Phe Leu Asn
 35 40 45
 10 Arg Ile Leu Gly Leu Glu Val His Lys Gln Asn Ala Leu Phe Gln Tyr
 50 55 60
 Phe Ser Asp Thr Phe Asp His Leu Ile Glu Met Asp Lys Arg Glu Gly
 65 70 75 80
 Lys Tyr Asp Met Gly Ile Leu Asp Leu Ala Pro Gly Ile Glu Glu Ile
 85 90 95
 15 Tyr Glu Glu Ser Gln Gln Val Phe Leu Ala Pro Gly His Pro Gln Asp
 100 105 110
 Gly Gln Val Val Phe Tyr Lys Ile Ser Val Asp Arg Gly Leu Lys Trp
 115 120 125
 20 Glu Asp Ala Phe Ala Lys Ser Leu Ala Leu Thr Gly Pro Tyr Asp Gly
 130 135 140
 Phe Tyr Leu Ser Tyr Lys Val Arg Gly Asn Lys Pro Ser Cys Leu Leu
 145 150 155 160
 Ala Glu Gln Asn Arg Gly Gln Phe Phe Thr Val Tyr Lys Pro Asn Ile
 165 170 175
 25 Gly Arg Gln Ser Gln Leu Glu Ala Leu Asp Ser Leu Arg Arg Lys Phe
 180 185 190
 His Arg Val Thr Ala Glu Glu Ala Lys Gly Ala Leu Gly Glu Trp Leu
 195 200 205
 30 Arg Phe Val Ala Asp Ala Leu Gln Ala Thr Ala Pro Gly Thr Gly Thr
 210 215 220
 Cys Arg Leu Ala Gln Glu Gly Xaa Gly Leu Xaa Ala Gly Ala Cys Gly
 225 230 235 240
 35 Leu Arg His Gln Leu His Ala Cys Xaa Ala Pro Leu
 245 250

<210> 790

<211> 94

<212> PRT

40 <213> Homo sapiens

<400> 790

Arg Gly Gln Gly Arg Ala Gly Gly Gly Arg Ile Ala Tyr Ile Ser Arg
 1 5 10 15
 45 Gly Leu Pro His Gly Ala Pro Glu Thr Arg Gly Pro Glu His Leu Gly
 20 25 30
 Phe Pro Glu Phe Leu Ala Leu Gly Thr Thr Arg Phe His Gly Phe Gln
 35 40 45
 50 Gly Phe Gly Pro Thr Glu Pro Leu Trp Val Pro Ser Pro Arg Ala Ala
 50 55 60
 Thr Arg Ser Pro Phe Leu Leu Gly Arg Arg Gly Thr Glu Arg Ala Leu
 65 70 75 80
 Pro Arg Pro Gly Pro Gln Leu Ser Xaa Trp Ala Pro Gln Gly
 85 90

55

<210> 791

<211> 225

<212> PRT

<213> Homo sapiens

60

<400> 791

Leu Lys Ala Lys Asp Gln Gly Lys Pro Glu Val Gly Glu Tyr Ala Lys
 1 5 10 15

Leu Glu Lys Ile Asn Ala Glu Gln Gln Leu Lys Ile Gln Glu Leu Gln
 20 25 30
 Glu Lys Leu Glu Lys Ala Val Lys Ala Ser Thr Glu Ala Thr Glu Leu
 35 40 45
 5 Leu Gln Asn Ile Arg Gln Ala Lys Glu Arg Ala Glu Arg Glu Leu Glu
 50 55 60
 Lys Leu Gln Asn Arg Glu Asp Ser Ser Glu Gly Ile Arg Lys Lys Leu
 65 70 75 80
 Val Glu Ala Glu Glu Arg Arg His Ser Leu Glu Asn Lys Val Lys Arg
 85 90 95
 10 Leu Glu Thr Met Glu Arg Arg Glu Asn Arg Leu Lys Asp Asp Ile Gln
 100 105 110
 Thr Lys Ser Gln Gln Ile Gln Gln Met Ala Asp Lys Ile Leu Glu Leu
 115 120 125
 15 Glu Glu Lys His Arg Glu Ala Gln Val Ser Ala Gln His Leu Glu Val
 130 135 140
 His Leu Lys Gln Lys Glu Gln His Tyr Glu Glu Lys Ile Lys Val Leu
 145 150 155 160
 Asp Asn Gln Ile Lys Lys Asp Leu Ala Asp Lys Glu Thr Leu Glu Asn
 165 170 175
 20 Met Met Gln Arg His Glu Glu Glu Ala His Glu Lys Gly Lys Ile Leu
 180 185 190
 Ser Glu Gln Lys Ala Met Ile Asn Ala Met Asp Ser Lys Ile Arg Ser
 195 200 205
 25 Leu Glu Gln Xaa Ile Val Glu Leu Ser Glu Ala Asn Lys Leu Ala Ala
 210 215 220
 Lys
 225

 30 <210> 792
 <211> 129
 <212> PRT
 <213> Homo sapiens

 35 <400> 792
 Asn Ala Lys Thr Glu Arg Pro Ile Phe Xaa Asp Leu Ser Lys Tyr Trp
 1 5 10 15
 Gly Pro Arg Xaa Lys Thr Ser Ala Asn Ile Gln Ser Asn Leu Pro Trp
 20 25 30
 40 Gly Arg Glu Gly Arg Glu Tyr Asp Pro Thr Asp Ser Lys Gln His Ile
 35 40 45
 Lys Arg His Ser Arg Thr Phe Ala Lys Gly Ala Thr Thr Trp Arg Phe
 50 55 60
 Val Gly Val Ser Asn Lys Lys Ala Leu Arg Leu Lys His Xaa Xaa Glu
 65 70 75 80
 45 Gly Ala Gly Met Gln Ala Arg Leu Gln Ser Gly Lys Gly Ser Glu Leu
 85 90 95
 Xaa Thr Gln Leu Lys Thr Arg Ser Cys Ser Pro Ala Xaa Gly Glu Thr
 100 105 110
 50 Gly Leu Pro Leu Ser Leu Pro Lys Arg Cys Leu Gly Leu Leu Arg Arg
 115 120 125
 Ala

55 <210> 793
 <211> 92
 <212> PRT
 <213> Homo sapiens

 60 <400> 793
 Glu Tyr Lys Val Ser Cys Lys Tyr Val Gln Ser Phe Glu Leu Val Leu
 1 5 10 15
 Xaa Ser Arg Lys Gln Phe Thr Asp Xaa Thr His Asn Ile His Phe Gln

20 25 30
 Gly Ser Arg Ser Pro Phe Leu Met Glu Ile Leu Asn Glu Met Pro Arg
 35 40 45
 5 Leu Lys Asp Pro Phe Ser Xaa Thr Phe Pro Asn Thr Gly Asp Gln Xaa
 50 55 60
 Thr Lys Leu Gln Gln Thr Phe Asn Gln Ile Cys Pro Gly Asp Gly Arg
 65 70 75 80
 Gly Gly Ser Thr Thr Pro Gln Thr Pro Ser Asn Thr
 85 90
 10
 <210> 794
 <211> 219
 <212> PRT
 <213> Homo sapiens
 15
 <400> 794
 Ser Ala Met Ser Ser Asp Arg Met Asp Cys Gly Arg Lys Val Arg Val
 1 5 10 15
 20 Glu Ser Gly Tyr Phe Ser Leu Glu Lys Thr Lys Gln Asp Leu Lys Ala
 20 25 30
 Glu Glu Gln Gln Leu Pro Pro Pro Leu Ser Pro Pro Ser Pro Ser Thr
 35 40 45
 Pro Asn His Arg Arg Ser Gln Val Ile Glu Lys Phe Gly Ala Leu Asp
 50 55 60
 25 Ile Glu Lys Ala Glu His Met Glu Thr Asn Ala Val Gly Pro Ser Gln
 65 70 75 80
 Ser Ser Asp Thr Arg Gln Gly Arg Ser Glu Lys Arg Ala Phe Pro Arg
 85 90 95
 30 Lys Arg Asp Phe Thr Asn Glu Ala Pro Pro Ala Pro Leu Pro Asp Ala
 100 105 110
 Ser Ala Ser Pro Leu Ser Pro His Arg Arg Ala Lys Ser Leu Asp Arg
 115 120 125
 Arg Ser Thr Glu Pro Ser Val Thr Pro Asp Leu Leu Asn Phe Lys Lys
 130 135 140
 35 Gly Trp Leu Thr Lys Gln Tyr Glu Asp Gly Gln Trp Lys Lys His Trp
 145 150 155 160
 Phe Val Leu Ala Asp Gln Ser Leu Arg Tyr Tyr Arg Asp Ser Val Ala
 165 170 175
 40 Glu Glu Ala Ala Asp Leu Asp Gly Glu Ile Asp Leu Ser Ala Cys Tyr
 180 185 190
 Asp Val Thr Glu Tyr Pro Val Gln Xaa Lys Leu Trp Leu Pro Asp Thr
 195 200 205
 Tyr Lys Gly Gly Arg Ser Leu Pro Leu Ser Pro
 210 215
 45
 <210> 795
 <211> 77
 <212> PRT
 <213> Homo sapiens
 50
 <400> 795
 Arg Gln Gln Glu Val Asn Thr Ala Glu Ser Gly Val Asp Asn Pro Xaa
 1 5 10 15
 55 Ala Ser Xaa Thr His Xaa Met Pro Thr Val Asn Asp Asp His Asn Arg
 20 25 30
 Asn Xaa Asn Asn Asn Lys Thr Lys Val Gln Val Lys Asn Xaa Ala
 35 40 45
 Trp Gly Val Leu Leu Gln Xaa Trp Gly Lys Arg Val Leu Asn Phe Gly
 50 55 60
 60 Trp Asp Thr Pro Ser Leu Ser Ser Ser Pro Trp Ile Lys
 65 70 75
 <210> 796

<211> 99
 <212> PRT
 <213> Homo sapiens

5 <400> 796
 Leu Ile Gln Gly Leu Glu Glu Arg Leu Gly Val Ser His Pro Lys Leu
 1 5 10 15
 Ser Thr Arg Phe Pro Gln Xaa Cys Ser Ser Thr Pro Gln Ala Xaa Phe
 20 25 30
 10 Phe Thr Trp Thr Phe Val Leu Leu Leu Leu Xaa Leu Arg Leu Trp
 35 40 45
 Ser Ser Leu Thr Val Gly Met Xaa Cys Xaa Arg Leu Ala Xaa Gly Leu
 50 55 60
 Ser Thr Pro Leu Ser Ala Val Leu Thr Ser Cys Cys Leu His Gln Ser
 15 65 70 75 80
 Phe Phe Pro Trp Tyr Ser Lys Ile Arg Pro Xaa Val Gly Val Gly Gly
 85 90 95
 His Leu Cys

20
 <210> 797
 <211> 138
 <212> PRT
 <213> Homo sapiens

25 <400> 797
 Ile His Thr Tyr Ile His Thr Tyr Ile His Thr Tyr Ile His Thr Ser
 1 5 10 15
 Ile His Ala Tyr Arg Tyr Thr Arg Lys Lys Lys Arg Lys Glu Lys Lys
 30 20 25 30
 Glu Lys Met Lys Glu Lys Ala Leu Tyr Cys Tyr Trp Ala Arg Ala Phe
 35 40 45
 Ser Leu Ser Val Ser Leu Cys Ser Ser Leu Ser Phe Ser Leu Cys Leu
 50 55 60
 35 Phe Leu Cys Leu Ser Val Ser Phe Phe Leu Ser Val Ser Val Ser Val
 65 70 75 80
 Phe Val Ser Leu Ser Pro Ser Leu Pro Val Ser Leu Cys Leu Ser Ser
 85 90 95
 Val Ser Leu Cys Leu Ser Met Ser Phe Ser Val Cys Leu Phe Leu Cys
 40 100 105 110
 Leu Ser Ala Ser Leu Phe Leu Phe Leu Cys Leu Ser Val Gly Leu Ser
 115 120 125
 Leu Ser Val Cys Leu Ser Val Ser Leu Ser
 130 135

45
 <210> 798
 <211> 103
 <212> PRT
 <213> Homo sapiens

50 <400> 798
 Lys Lys Arg His Cys Ile Ala Thr Gly Leu Gly Pro Ser Leu Cys Leu
 1 5 10 15
 Phe Leu Ser Val Arg Leu Cys Leu Ser Leu Cys Val Ser Phe Ser Val
 55 20 25 30
 Cys Leu Ser Leu Ser Phe Ser Leu Ser Leu Ser Leu Ser Leu Ser Leu
 35 40 45
 Ser Leu Pro Leu Cys Leu Ser His Cys Val Cys Leu Leu Ser Leu Ser
 50 55 60
 60 Val Cys Leu Cys Leu Ser Leu Ser Val Ser Phe Ser Val Cys Leu Pro
 65 70 75 80
 Leu Ser Phe Phe Phe Cys Val Ser Leu Ser Val Ser Leu Ser Leu Ser
 85 90 95

Val Cys Leu Ser Leu Ser Leu
100

5 <210> 799
<211> 95
<212> PRT
<213> Homo sapiens

<400> 799
10 Glu Arg Glu Thr Asp Arg Gln Thr Glu Arg Glu Arg Pro Thr Glu Arg
1 5 10 15
His Arg Lys Arg Lys Arg Glu Ala Asp Arg Gln Arg Lys Arg Gln Thr
20 25 30
15 Glu Lys Asp Ile Asp Arg Gln Arg Glu Thr Glu Asp Arg His Ser Glu
35 40 45
Thr Gly Arg Glu Gly Glu Arg Glu Thr Lys Thr Glu Thr Glu Thr Glu
50 55 60
Arg Lys Lys Glu Thr Asp Arg Gln Arg Lys Arg His Arg Glu Lys Asp
65 70 75 80
20 Arg Asp Glu Gln Arg Glu Thr Asp Arg Glu Lys Ala Leu Ala Gln
85 90 95

<210> 800
25 <211> 100
<212> PRT
<213> Homo sapiens

<400> 800
30 Asp Arg Gln Arg Gly Arg Glu Arg Asp Lys Asp Arg Asp Arg Asp Arg
1 5 10 15
Glu Lys Glu Arg Asp Arg Gln Thr Glu Lys Glu Thr Gln Arg Glu Arg
20 25 30
Gln Arg Arg Thr Glu Arg Asn Arg Gln Arg Glu Gly Pro Ser Pro Val
35 40 45
Ala Ile Gln Cys Leu Phe Phe His Phe Leu Phe Leu Phe Phe Ser Phe
50 55 60
35 Phe Leu Ser Cys Ile Ser Val Cys Met Asp Gly Cys Met Tyr Val Cys
65 70 75 80
Met Tyr Val Cys Met Tyr Val Cys Val Tyr Leu Phe Met Tyr Val Phe
40 85 90 95
Ile Trp Arg Pro
100

45 <210> 801
<211> 185
<212> PRT
<213> Homo sapiens

<400> 801
50 Thr Val Gly Thr Ala Met Ala Pro Val Leu Ser Lys Asp Ser Ala Asp
1 5 10 15
Ile Glu Ser Ile Leu Ala Leu Asn Pro Arg Thr Gln Thr His Ala Thr
20 25 30
Leu Cys Ser Thr Ser Ala Lys Lys Leu Asp Lys Lys His Trp Lys Arg
35 40 45
55 Asn Pro Asp Lys Asn Cys Phe Asn Cys Glu Lys Leu Glu Asn Asn Phe
50 55 60
Asp Asp Ile Lys His Thr Thr Leu Gly Glu Arg Gly Ala Leu Arg Glu
65 70 75 80
60 Ala Met Arg Cys Leu Lys Cys Ala Asp Ala Pro Cys Gln Lys Ser Cys
85 90 95
Pro Thr Asn Leu Asp Ile Lys Ser Phe Ile Thr Ser Ile Ala Asn Lys
100 105 110

Asn Tyr Tyr Gly Ala Ala Lys Met Ile Phe Ser Asp Asn Pro Leu Gly
 115 120 125
 Leu Thr Cys Gly Met Val Cys Pro Thr Ser Asp Leu Cys Val Gly Gly
 130 135 140
 5 Cys Asn Leu Tyr Ala Thr Glu Glu Gly Pro Ile Asn Ile Gly Gly Leu
 145 150 155 160
 Gln Gln Phe Ala Thr Glu Val Cys Met Ile Tyr Thr Val Thr Ser Pro
 165 170 175
 10 His Tyr His His His Ala Gln Ile Ser
 180 185

 <210> 802
 <211> 155
 <212> PRT
 15 <213> Homo sapiens

 <400> 802
 Asp Tyr Arg Xaa Ile Glu Ile Thr Ile Cys Lys Asn Asp Glu Cys Val
 1 5 10 15
 20 Leu Glu Asp Asn Ser Gln Arg Thr Lys Trp Lys Val Ile Ser Pro Thr
 20 25 30
 Gly Asn Glu Ala Xaa Val Pro Xaa Val Cys Phe Leu Ile Pro Pro Pro
 35 40 45
 25 Asn Lys Asp Ala Ile Xaa Met Ala Ser Arg Val Glu Gln Ser Tyr Xaa
 50 55 60
 Lys Val Met Ala Leu Trp His Gln Leu His Val Asn Thr Lys Ser Leu
 65 70 75 80
 Xaa Ser Trp Asn Tyr Leu Arg Lys Asp Leu Asp Leu Val Gln Thr Trp
 85 90 95
 30 Asn Leu Glu Lys Leu Arg Ser Ser Ala Pro Gly Glu Cys His Gln Ile
 100 105 110
 Met Xaa Asn Leu Gln Ala His Tyr Glu Asp Phe Xaa Gln Asp Ser Arg
 115 120 125
 35 Asp Ser Val Leu Val Ser Val Ala Asp Arg Leu Arg Leu Glu Glu Glu
 130 135 140
 Xaa Glu Ala Cys Lys Ala Arg Phe Gln His Leu
 145 150 155

 <210> 803
 40 <211> 200
 <212> PRT
 <213> Homo sapiens

 <400> 803
 45 Arg Gly Asn Xaa Gln Gly Lys Ala Xaa Ser Ser Glu Thr Lys Glu Ser
 1 5 10 15
 Thr Asp Ile Glu Lys Ala Ile Leu Glu Gln Gln Val Leu Ser Glu Glu
 20 25 30
 50 Leu Thr Thr Lys Lys Glu Gln Val Phe Glu Ala Ile Lys Thr Ser Gln
 35 40 45
 Ile Phe Leu Ala Lys His Gly His Lys Leu Ser Glu Lys Glu Lys Lys
 50 55 60
 Gln Ile Ser Glu Gln Leu Asn Ala Leu Asn Lys Ala Tyr His Asp Leu
 65 70 75 80
 55 Cys Asp Gly Ser Ala Asn Gln Leu Gln Gln Leu Gln Ser Gln Leu Ala
 85 90 95
 His Gln Thr Glu Gln Lys Glu Cys Arg Ala Val Ala Gly Val Ile Asp
 100 105 110
 60 Leu Gly Thr Val Glu Ile Phe Pro Ile Phe Lys Ala Met Gln Lys Gly
 115 120 125
 Leu Leu Asp Gln Asp Thr Gly Leu Val Leu Leu Glu Ser Gln Val Ile
 130 135 140
 Met Ser Gly Leu Ile Ala Pro Glu Thr Gly Glu Asn Leu Ser Leu Glu

10 <210> 804
 <211> 204
 <212> PRT
 <213> Homo sapiens

```

45      <210> 805
        <211> 187
        <212> PRT
        <213> Homo sapiens

```

298

Gly Leu Thr Phe Cys Pro Gln Ser Phe Gln Leu Leu Val Pro Phe Leu
 130 135 140
 Glu His Cys Leu Gly Leu Gln Pro Ala Val Leu Gln Gly Pro Gly Leu
 145 150 155 160
 5 His Leu Met Leu Leu Cys Leu Leu Ser Thr Leu Leu Leu Glu Gly Gln
 165 170 175
 Gln Ser Phe Leu Leu Leu Pro Arg Leu Ser Pro
 180 185

 10 <210> 806
 <211> 105
 <212> PRT
 <213> Homo sapiens

 15 <400> 806
 Asp Lys Lys Asn Ser Arg Trp Pro Ser Val Gly Leu Lys Leu Gln Lys
 1 5 10 15
 Xaa Arg Trp Ser Cys Cys Lys Ala Gln Leu Thr Leu Glu Arg Lys Gln
 20 20 25 30
 20 Lys Gln Asp Tyr Ile Thr Arg Ser Ala Gln Thr Ser Arg Glu Leu Ala
 35 40 45
 Gly Leu His His Ser Leu Ser His Ser Leu Leu Ala Val Ala Gln Ala
 50 55 60
 Pro Glu Ala Thr Val Leu Glu Ala Glu Thr Arg Arg Leu Asp Glu Ser
 25 65 70 75 80
 Leu Thr Gln Ser Leu Thr Ser Pro Gly Pro Val Leu Leu His Pro Ser
 85 90 95
 Pro Ser Thr Thr Gln Ala Ala Ser Arg
 100 105

 30 <210> 807
 <211> 256
 <212> PRT
 <213> Homo sapiens

 35 <400> 807
 Phe Glu Lys Asp Ala Asp Ser Ser Glu Arg Ile Ile Ala Pro Met Arg
 1 5 10 15
 Trp Gly Leu Val Pro Ser Trp Phe Lys Glu Ser Asp Pro Ser Lys Leu
 40 20 25 30
 Gln Phe Asn Thr Thr Asn Cys Arg Ser Asp Thr Val Met Glu Lys Arg
 35 40 45
 Ser Phe Lys Val Pro Leu Gly Lys Gly Arg Arg Cys Val Val Leu Ala
 50 55 60
 45 Asp Gly Phe Tyr Glu Trp Gln Arg Cys Gln Gly Thr Asn Gln Arg Gln
 65 70 75 80
 Pro Tyr Phe Ile Tyr Phe Pro Gln Ile Lys Thr Glu Lys Ser Gly Ser
 85 90 95
 Ile Gly Ala Ala Asp Ser Pro Glu Asn Trp Glu Lys Val Trp Asp Asn
 50 100 105 110
 Trp Arg Leu Leu Thr Met Ala Gly Ile Phe Asp Cys Trp Glu Pro Pro
 115 120 125
 Glu Gly Gly Asp Val Leu Tyr Ser Tyr Thr Ile Ile Thr Val Asp Ser
 130 135 140
 55 Cys Lys Gly Leu Ser Asp Ile His His Arg Met Pro Ala Ile Leu Asp
 145 150 155 160
 Gly Glu Glu Ala Val Ser Lys Trp Leu Asp Phe Gly Glu Val Ser Thr
 165 170 175
 Xaa Glu Ala Leu Lys Leu Ile His Pro Thr Glu Asn Ile Thr Phe His
 60 180 185 190
 Ala Val Ser Ser Val Xaa Asn Asn Ser Arg Asn Asn Thr Ser Glu Cys
 195 200 205
 Leu Ala Xaa Val Asp Leu Val Val Lys Xaa Glu Leu Lys Ala Ser Gly

210 215 220
 Asn Xaa Pro Lys Asp Val Ala Met Gly Trp Xaa Gln Ser Xaa Pro Lys
 225 230 235 240
 Lys Glu Asp Ser Lys Thr Leu Gln Lys Glu Lys Val Arg Cys Xaa Pro
 5 245 250 255

 <210> 808
 <211> 88
 <212> PRT
 10 <213> Homo sapiens

 <400> 808
 Lys Ser Glu Arg Ala Gln Trp Leu Ser Arg Lys Gln Leu Thr Thr Arg
 1 5 10 15
 15 Ser Thr Arg Ser Gly Gln Arg Leu Pro Ser Trp Val Arg His Ala Leu
 20 20 25 30
 Arg Glu Asp Ser Thr Ser Pro Ala Arg Lys Gly Gln Gln Ala Gln Cys
 35 40 45
 Pro Tyr Gly Ala His Met Ala Gly Asn Ser Ser Arg Thr Pro Leu Pro
 20 50 55 60
 Lys Leu Ser Thr Ser Pro Thr Arg Gly Ser Tyr Ser Trp Gln Lys Arg
 65 70 75 80
 Leu His Glu Pro Thr Thr Val Asn
 85
 25
 <210> 809
 <211> 96
 <212> PRT
 30 <213> Homo sapiens

 <400> 809
 Gly Lys Thr Pro Pro Ala Leu Pro Gly Lys Gly Ser Arg Arg Ser Ala
 1 5 10 15
 35 Pro Met Gly Pro Thr Trp Leu Val Thr Ala Ala Gly His Leu Phe Gln
 20 25 30
 Ser Cys Pro Pro Ala Pro Leu Gly Ala Pro Thr His Gly Lys Lys Asp
 35 40 45
 Tyr Met Ser Pro Gln Leu Ser Thr Asn Thr Val Pro Pro Pro Lys
 50 55 60
 40 Ala Asn Thr Tyr Thr Tyr Asn Val Lys Asn Leu Leu Ser Glu Gln Gln
 65 70 75 80
 Cys Ser Arg Pro Trp Pro Trp Ser Leu Lys Val Leu Cys His Trp Leu
 85 90 95
 45
 <210> 810
 <211> 178
 <212> PRT
 <213> Homo sapiens

 50 <400> 810
 Gln Ser Asn Ser Pro Val Leu Leu Ser Arg Leu His Phe Glu Lys Asp
 1 5 10 15
 Ala Asp Ser Ser Glu Arg Ile Ile Ala Pro Met Arg Trp Gly Leu Val
 20 25 30
 55 Pro Ser Trp Phe Lys Glu Ser Asp Pro Ser Lys Leu Gln Phe Asn Thr
 35 40 45
 Thr Asn Cys Arg Ser Asp Thr Val Met Glu Lys Arg Ser Phe Lys Val
 50 55 60
 Pro Leu Gly Lys Gly Arg Arg Cys Val Val Leu Ala Asp Gly Phe Tyr
 60 65 70 75 80
 Glu Trp Gln Arg Cys Gln Gly Thr Asn Gln Arg Gln Pro Tyr Phe Ile
 85 90 95
 Tyr Phe Pro Gln Ile Lys Thr Glu Lys Ser Gly Ser Ile Gly Ala Ala

100 105 110
 Asp Ser Pro Glu Asn Trp Glu Lys Val Trp Asp Asn Trp Arg Leu Leu
 115 120 125
 5 Thr Met Ala Gly Ile Phe Asp Cys Trp Glu Pro Pro Glu Gly Gly Asp
 130 135 140
 Val Leu Tyr Ser Tyr Thr Ile Ile Thr Val Asp Ser Cys Lys Gly Leu
 145 150 155 160
 Ser Asp Ile His His Arg Met Pro Ala Ile Leu Asp Gly Glu Glu Ala
 165 170 175
 10 Ser Phe

<210> 811
 <211> 294
 15 <212> PRT
 <213> Homo sapiens

<400> 811
 20 Arg Met Cys Gly Arg Thr Ser Cys His Leu Pro Arg Asp Val Leu Thr
 1 5 10 15
 Arg Ala Cys Ala Tyr Gln Asp Arg Arg Gly Gln Gln Arg Leu Pro Glu
 20 25 30
 Trp Arg Asp Pro Asp Lys Tyr Cys Pro Ser Tyr Asn Lys Ser Pro Gln
 35 40 45
 25 Ser Asn Ser Pro Val Leu Leu Ser Arg Leu His Phe Glu Lys Asp Ala
 50 55 60
 Asp Ser Ser Glu Arg Ile Ile Ala Pro Met Arg Trp Gly Leu Val Pro
 65 70 75 80
 Ser Trp Phe Lys Glu Ser Asp Pro Ser Lys Leu Gln Phe Asn Thr Thr
 85 90 95
 30 Asn Cys Arg Ser Asp Thr Val Met Glu Lys Arg Ser Phe Lys Val Pro
 100 105 110
 Leu Gly Lys Gly Arg Arg Cys Val Val Leu Ala Asp Gly Phe Tyr Glu
 115 120 125
 35 Trp Gln Arg Cys Gln Gly Thr Asn Gln Arg Gln Pro Tyr Phe Ile Tyr
 130 135 140
 Phe Pro Gln Ile Lys Thr Glu Lys Ser Gly Ser Ile Gly Ala Ala Asp
 145 150 155 160
 Ser Pro Glu Asn Trp Glu Lys Val Trp Asp Asn Trp Arg Leu Leu Thr
 165 170 175
 40 Met Ala Gly Ile Phe Asp Cys Trp Glu Pro Pro Glu Gly Gly Asp Val
 180 185 190
 Leu Tyr Ser Tyr Thr Ile Ile Thr Val Asp Ser Cys Lys Gly Leu Ser
 195 200 205
 45 Asp Ile His His Xaa Met Pro Ala His Ile Xaa Met Glu Lys Glu Ala
 210 215 220
 Val Ser Lys Met Ala Trp Thr Leu Val Lys Val Phe Asn Leu Arg Lys
 225 230 235 240
 Leu Leu Lys Phe Asn Pro Pro Asn Lys Arg Lys Phe Thr Phe Pro Cys
 245 250 255
 50 Gln Xaa Phe Xaa Gly Gly Thr Asn Leu Arg Lys Gln His Phe Pro Glu
 260 265 270
 Trp Phe Gly Phe Leu Ser Thr Leu Gly Gly Xaa Lys Xaa Asn Leu Xaa
 275 280 285
 55 Ala Lys Trp Glu Xaa Pro
 290

<210> 812
 <211> 96
 60 <212> PRT
 <213> Homo sapiens

<400> 812

Gly Lys Thr Pro Pro Ala Leu Pro Gly Lys Gly Ser Arg Arg Ser Ala
 1 5 10 15
 Pro Met Gly Pro Thr Trp Leu Val Thr Ala Ala Gly His Leu Phe Gln
 20 25 30
 5 Ser Cys Pro Pro Ala Pro Leu Gly Ala Pro Thr His Gly Lys Lys Asp
 35 40 45
 Tyr Met Ser Pro Gln Leu Ser Thr Asn Thr Xaa Pro Pro Pro Lys
 50 55 60
 Ala Asn Thr Tyr Thr Tyr Asn Val Lys Asn Leu Ser Glu Gln Gln
 65 70 75 80
 10 Cys Ser Arg Pro Trp Pro Trp Ser Leu Lys Val Leu Cys His Trp Leu
 85 90 95

15 <210> 813
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 813
 20 Ala Val Ser Val Ser Cys Ile Thr Tyr Leu Arg Gly Ile Phe Pro Glu
 1 5 10 15
 Cys Ala Tyr Gly Thr Arg Tyr Leu Asp Asp Leu Cys Val Lys Ile Leu
 20 25 30
 25 Arg Glu Asp Lys Asn Cys Pro Gly Ser Thr Gln Leu Val Lys Trp Met
 35 40 45
 Leu Gly Cys Tyr Asp Ala Leu Gln Lys Lys Tyr Leu Arg Met Val Val
 50 55 60
 Leu Ala Val Tyr Thr Asn Pro Glu Asp Pro Gln Thr Ile Ser Glu Cys
 65 70 75 80
 30 Tyr Gln Phe Lys Phe Lys Tyr Thr Asn Asn Gly Pro Leu Met Asp Phe
 85 90 95
 Ile Ser Lys Asn Gln Ser Asn Glu Ser Ser Met Leu Ser Thr Asp Thr
 100 105 110
 Lys Lys Ala Ser Ile Leu Leu Ile Arg Lys Ile Tyr Ile Leu Met Gln
 115 120 125
 35 Asn Leu Gly Pro Leu Pro Asn Asp Val Cys Leu Thr Met Lys Leu Phe
 130 135 140
 Tyr Tyr Asp Glu Val Thr Pro Pro Asp Tyr Gln Pro Pro Gly Phe Lys
 145 150 155 160
 40 Asp Gly Asp Cys Glu Gly Val Ile Phe Glu Gly Glu Pro Met Tyr Leu
 165 170 175
 Asn Val Gly Glu Val Ser Thr Pro Phe His Ile Phe Lys Val Lys Val
 180 185 190
 Thr Thr Glu Arg Glu Arg Met Glu Asn Ile Asp Ser Thr Xaa Leu Ser
 195 200 205
 45 Pro Lys Gln Ile Lys Thr Pro Phe Gln Lys Ile Leu Arg Asp Lys Asp
 210 215 220
 Val Xaa Xaa Glu Gln Asp Xaa Tyr Ile Ser Gly
 225 230 235

50 <210> 814
 <211> 59
 <212> PRT
 <213> Homo sapiens

55 <400> 814
 Leu Asn Asn Ile Leu Phe Met Leu Gln Lys Met Pro Tyr Phe Lys Asn
 1 5 10 15
 Gln Ser Phe Cys Pro Val Lys Lys Ser Ile Val Lys Val Lys His Gln
 20 25 30
 60 Phe Leu Asn Cys Thr Leu Tyr Ile Lys Met Leu Ile His Tyr Val Lys
 35 40 45
 Ile Leu Lys Asn Ile Val Leu Ile Thr Ala Gln

50 55

<210> 815
 <211> 148
 5 <212> PRT
 <213> Homo sapiens

<400> 815
 10 Leu Cys Leu Val Tyr Val Tyr Met Pro Asn Gly Ser Leu Leu Asp Arg
 1 5 10 15
 Leu Ser Cys Leu Asp Gly Thr Pro Pro Leu Ser Trp His Met Arg Cys
 20 25 30
 Lys Ile Ala Gln Gly Ala Ala Asn Gly Ile Asn Phe Leu His Glu Asn
 35 40 45
 15 His His Ile His Arg Asp Ile Lys Ser Ala Asn Ile Leu Leu Asp Glu
 50 55 60
 Ala Phe Thr Ala Lys Ile Ser Asp Phe Gly Leu Ala Arg Ala Ser Glu
 65 70 75 80
 Lys Phe Ala Gln Thr Val Met Thr Ser Arg Ile Val Gly Thr Thr Ala
 20 85 90 95
 Tyr Met Ala Pro Glu Ala Leu Arg Gly Glu Ile Thr Pro Lys Ser Asp
 100 105 110
 Ile Tyr Ser Phe Gly Val Val Leu Leu Glu Ile Ile Thr Gly Leu Pro
 115 120 125
 25 Ala Val Asp Glu His Arg Glu Pro Gln Leu Leu Leu Asp Ile Lys Arg
 130 135 140
 Arg Asn Xaa Arg
 145

30 <210> 816
 <211> 77
 <212> PRT
 <213> Homo sapiens

35 <400> 816
 Asn Val Thr His Leu Phe Ile Tyr Leu Phe Met Met Glu Ser His Ser
 1 5 10 15
 Val Thr Gln Ala Gly Val Gln Trp His Asp Leu Ser Ser Leu Gln Pro
 20 25 30
 40 Leu Pro Pro Trp Phe Gln Leu Val Ser Cys Leu Ser Leu Pro Ser Ser
 35 40 45
 Trp Asp Tyr Arg Cys Pro Pro Pro Arg Ser Ser Asn Phe Cys Ile Phe
 50 55 60
 Ser Lys Asp Gly Val Ser Pro Cys Trp Pro Gly Arg Ser
 45 65 70 75

<210> 817
 <211> 83
 <212> PRT
 50 <213> Homo sapiens

<400> 817
 Ser Pro Ala Ser Ala Ser Gln Val Ala Gly Thr Thr Gly Val His His
 1 5 10 15
 55 His Ala Arg Leu Ile Phe Val Phe Leu Val Lys Thr Gly Phe His His
 20 25 30
 Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Ala
 35 40 45
 Ser Ala Ser Gln Ser Ala Gly Ile Tyr Arg Tyr Glu Pro Pro His Pro
 50 55 60
 60 Ala Asn Val Thr His Tyr Leu Thr Val Leu Tyr Ile Arg Ser Pro Ala
 65 70 75 80
 Gln Asn Arg

5
 <210> 818
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 818
 10 Lys Glu Gln Arg Lys Glu Asn Glu Pro Glu Ala Glu Lys Thr His Leu
 1 5 10 15
 Phe Ala Lys Gln Glu Lys Ala Phe Tyr Pro Lys Ser Phe Lys Ser Lys
 20 25 30
 Lys Gln Lys Pro Ser Arg Val Leu Tyr Ser Ser Thr Glu Ser Ser Asp
 35 40 45
 15 Glu Glu Ala Leu Gln Asn Lys Lys Ile Ser Thr Ser Cys Ser Val Ile
 50 55 60
 Pro Glu Thr Ser Asn Ser Asp Met Gln Thr Lys Lys Glu Tyr Val Val
 65 70 75 80
 Ser Gly Glu His Lys Gln Lys Gly Lys Val Lys Arg Lys Leu Lys Asn
 20 85 90 95
 Gln Asn Lys Asn Lys Glu Asn Gln Glu Leu Lys Gln Glu Lys Glu Gly
 100 105 110
 Lys Glu Asn Thr Arg Ile Thr Asn Leu Thr Val Asn Thr Gly Leu Asp
 115 120 125
 25 Cys Ser Glu Lys Thr Arg Glu Glu Gly Asn Phe Arg Lys Ser Phe Ser
 130 135 140
 Pro Lys Asp Asp Thr Ser Leu His Leu Phe His Ile Ser Thr Gly Lys
 145 150 155 160
 Ser Pro Lys His Ser Cys Gly Leu Lys
 30 165

<210> 819
 <211> 139
 <212> PRT
 35 <213> Homo sapiens

<400> 819
 40 Ala Phe Leu Phe Pro Ser Xaa Tyr Ala Ser Ile Tyr Val Phe Leu Met
 1 5 10 15
 Xaa Tyr Leu Xaa Tyr Pro Phe Phe Ser Xaa Gly Asn Leu Asn Phe Gln
 20 25 30
 Met Xaa Asp Tyr Asp Leu His Pro Leu Phe Trp His Leu Ile Phe His
 35 40 45
 45 Gln Ile Leu Xaa Gly Asn Leu Ser Asp Val Xaa Phe Phe Pro Tyr Ala
 50 55 60
 Tyr Xaa Ile Leu Xaa Leu Asn Phe Xaa Ala Xaa Ile Gln Ile Leu Xaa
 65 70 75 80
 Tyr His Xaa Xaa Gln Xaa Gln Ala Val Met Thr Phe Gln Asn Phe Leu
 85 90 95
 50 Gly Ile Asn Met Phe Xaa Tyr Val Leu Xaa Leu Gly Gly Xaa Thr Xaa
 100 105 110
 Phe His Leu Ile Xaa Xaa Asn Val Trp Xaa Ile Tyr Xaa Xaa Lys Tyr
 115 120 125
 Glu Ile Asn Val Met Lys Xaa His Xaa Leu Gly
 55 130 135

<210> 820
 <211> 168
 <212> PRT
 60 <213> Homo sapiens

<400> 820
 Pro Arg Xaa Pro Thr Leu Pro Val Asn Thr Xaa Xaa Asp Cys Ser Glu

1 5 10 15
 Lys Thr Arg Glu Glu Gly Asn Phe Arg Lys Xaa Phe Ser Pro Lys Xaa
 20 25 30
 Xaa Thr Ser Leu His Leu Phe His Ile Ser Xaa Gly Lys Xaa Pro Lys
 35 40 45
 5 His Xaa Xaa Gly Leu Ser Glu Xaa Gln Ser Xaa Pro Leu Xaa Gln Glu
 50 55 60
 His Xaa Lys Thr Cys Leu Ser Pro Gly Ser Phe Glu Met Ser Leu Gln
 65 70 75 80
 10 Pro Asp Xaa Val Xaa Xaa Asp Xaa Thr Glu Phe Glu Xaa Leu Pro Xaa
 85 90 95
 Ser Ser Xaa Val Lys Xaa Cys Lys His Lys Glu Lys Ser Xaa His Gln
 100 105 110
 Lys Asp Phe Xaa Leu Glu Phe Gly Glu Lys Ser Asn Ala Lys Ile Lys
 115 120 125
 15 Asp Glu Asp His Ser Pro Xaa Phe Glu Asn Ser Asp Cys Xaa Leu Lys
 130 135 140
 Lys Met Asp Lys Xaa Gly Lys Xaa Leu Lys Lys His Lys Leu Lys His
 145 150 155 160
 20 Lys Xaa Arg Glu Lys Glu Lys His
 165

<210> 821

<211> 176

25 <212> PRT

<213> Homo sapiens

<400> 821

30 Leu Ser Phe Val Lys Glu Ile Lys Glu Cys Arg Arg Ile Glu Asn Leu
 1 5 10 15
 Trp Lys Asn Arg Met His Glu Lys Ala Arg Lys Ala Glu Glu Met Arg
 20 25 30
 Arg Gln Gln Lys Leu Lys Gln Ala Lys Leu Val Glu Gln Tyr Arg Glu
 35 40 45
 35 Gln Ser Trp Met Thr Met Ala Asn Leu Glu Lys Glu Leu Gln Glu Met
 50 55 60
 Glu Ala Arg Tyr Glu Lys Glu Phe Gly Asp Gly Ser Asp Glu Asn Glu
 65 70 75 80
 40 Met Glu Glu His Glu Leu Lys Asp Glu Glu Asp Gly Lys Asp Ser Asp
 85 90 95
 Glu Ala Glu Asp Ala Glu Leu Tyr Asp Asp Leu Tyr Cys Pro Ala Cys
 100 105 110
 Asp Lys Ser Phe Lys Thr Glu Xaa Ala Met Lys Asn His Glu Lys Ser
 115 120 125
 45 Lys Lys His Arg Glu Met Val Ala Leu Leu Lys Gln Gln Leu Glu Glu
 130 135 140
 Glu Glu Xaa Asn Phe Ser Xaa Pro Gln Ile Asp Glu Asn Pro Leu Asp
 145 150 155 160
 50 Asp Asn Ser Glu Glu Glu Met Glu Asp Ala Pro Lys Gln Lys Leu Ser
 165 170 175

<210> 822

<211> 193

55 <212> PRT

<213> Homo sapiens

<400> 822

60 Ile Arg Xaa Lys Ala Arg Lys Glu Lys Asn Glu Leu Val Arg Gln Leu
 1 5 10 15
 Val Ala Phe Ile Arg Lys Arg Asp Lys Arg Val Gln Ala His Arg Lys
 20 25 30
 Leu Val Glu Glu Gln Asn Ala Glu Lys Ala Arg Lys Ala Glu Glu Met
 35 40 45

Arg Arg Gln Gln Lys Leu Lys Gln Ala Lys Leu Val Glu Gln Tyr Arg
 50 55 60
 Glu Gln Ser Trp Met Thr Met Ala Asn Leu Glu Lys Glu Leu Gln Glu
 65 70 75 80
 5 Met Glu Ala Arg Tyr Glu Lys Glu Phe Gly Asp Gly Ser Asp Glu Asn
 85 90 95
 Glu Met Glu Glu His Glu Leu Lys Asp Glu Glu Asp Gly Lys Asp Ser
 100 105 110
 10 Asp Glu Ala Glu Asp Ala Glu Leu Tyr Asp Asp Leu Tyr Cys Pro Ala
 115 120 125
 Cys Asp Lys Ser Phe Lys Thr Glu Lys Ala Met Lys Asn His Glu Lys
 130 135 140
 Ser Lys Lys His Arg Glu Met Val Ala Leu Leu Lys Gln Gln Leu Glu
 145 150 155 160
 15 Glu Glu Glu Glu Asn Phe Ser Arg Pro Gln Ile Asp Glu Asn Pro Leu
 165 170 175
 Asp Asp Asn Ser Glu Glu Glu Met Glu Asp Ala Pro Lys Gln Lys Leu
 180 185 190
 Ser
 20
 <210> 823
 <211> 253
 <212> PRT
 25 <213> Homo sapiens
 <400> 823
 Ala Val Gln Ala Ser Ser Gly Ser Pro Lys Ala Arg Thr Thr Glu Gly
 1 5 10 15
 30 Pro Val Asp Ser Met Pro Cys Leu Asp Arg Met Pro Leu Leu Ala Lys
 20 25 30
 Gly Lys Gln Ala Thr Gly Glu Glu Lys Ala Ala Thr Ala Pro Gly Ala
 35 35 40 45
 Gly Ala Lys Ala Ser Gly Glu Gly Met Ala Gly Asp Ala Ala Gly Glu
 50 55 60
 35 Thr Glu Gly Ser Met Glu Arg Met Gly Glu Pro Ser Gln Asp Pro Lys
 65 70 75 80
 Gln Gly Thr Ser Gly Gly Val Asp Thr Ser Ser Glu Gln Ile Ala Thr
 85 90 95
 40 Leu Thr Gly Phe Pro Asp Phe Arg Glu His Ile Ala Lys Ile Phe Glu
 100 105 110
 Lys Pro Val Leu Gly Ala Leu Ala Thr Pro Gly Glu Lys Ala Gly Ala
 115 120 125
 Gly Arg Ser Ala Val Gly Lys Asp Leu Thr Arg Pro Leu Gly Pro Glu
 45 130 135 140
 Lys Leu Leu Asp Gly Pro Pro Gly Val Asp Val Thr Leu Leu Pro Ala
 145 150 155 160
 Pro Pro Ala Arg Leu Gln Val Glu Lys Lys Gln Gln Leu Ala Gly Glu
 165 170 175
 50 Ala Glu Ile Ser His Leu Ala Leu Gln Asp Pro Ala Ser Asp Lys Leu
 180 185 190
 Leu Gly Pro Ala Gly Leu Thr Trp Glu Arg Asn Leu Pro Gly Ala Gly
 195 200 205
 Val Gly Lys Glu Met Ala Gly Cys Pro Thr His Thr Glu Gly Arg Xaa
 55 210 215 220
 Xaa Gly Gln Lys Gly Leu Gly Gln Pro Gly Gln Ala Trp Lys Ala Arg
 225 230 235 240
 Leu Thr Tyr Ser Leu Glu Lys Asn Xaa Gln Glu Leu Leu
 245 250
 60
 <210> 824
 <211> 242
 <212> PRT

<213> Homo sapiens

<400> 824

5 Val Ser Leu Ala Phe Gln Ala Trp Pro Gly Cys Pro Arg Pro Phe Trp
 1 5 10 15
 Pro Xaa Xaa Leu Pro Ser Val Trp Val Gly Gln Pro Ala Ile Ser Phe
 20 25 30
 Pro Thr Pro Ala Pro Gly Lys Phe Arg Ser Gln Val Ser Pro Ala Gly
 35 40 45
 10 Pro Arg Ser Leu Ser Glu Ala Gly Ser Cys Arg Ala Arg Trp Glu Ile
 50 55 60
 Ser Ala Ser Pro Ala Asn Cys Cys Phe Phe Ser Thr Trp Ser Arg Ala
 65 70 75 80
 Gly Gly Ala Gly Arg Arg Val Thr Ser Thr Pro Gly Gly Pro Ser Arg
 85 90 95
 15 Ser Phe Ser Gly Pro Asn Gly Leu Val Arg Ser Leu Pro Thr Ala Leu
 100 105 110
 Leu Pro Ala Pro Ala Phe Ser Pro Gly Val Ala Arg Ala Pro Ser Thr
 115 120 125
 20 Gly Phe Ser Lys Ile Leu Ala Met Cys Ser Leu Lys Ser Gly Lys Pro
 130 135 140
 Val Arg Val Ala Ile Cys Ser Glu Leu Val Ser Thr Pro Pro Asp Val
 145 150 155 160
 Pro Cys Phe Gly Ser Trp Glu Gly Ser Pro Ile Leu Ser Met Leu Pro
 165 170 175
 25 Ser Val Ser Pro Ala Ala Ser Pro Ala Met Pro Ser Pro Leu Ala Leu
 180 185 190
 Ala Pro Ala Pro Gly Ala Val Ala Ala Phe Ser Ser Pro Val Ala Cys
 195 200 205
 30 Leu Pro Leu Ala Arg Ser Gly Ile Arg Ser Arg His Gly Met Glu Ser
 210 215 220
 Thr Gly Pro Ser Val Val Leu Ala Leu Gly Leu Pro Leu Leu Ala Cys
 225 230 235 240
 Thr Ala

<210> 825

<211> 82

<212> PRT

40 <213> Homo sapiens

<400> 825

Phe Tyr Asn Leu Lys Xaa Leu Lys Gln Gln Val Met Lys Tyr Leu Leu
 1 5 10 15
 45 Tyr Tyr Tyr Thr Ser Gly Pro Ala Phe Ser Lys Lys Xaa Leu Thr Cys
 20 25 30
 Leu Arg Thr Leu Lys Lys Lys Ala Leu Ile Trp Ser Phe Leu Gly Trp
 35 40 45
 Gly Arg Leu Phe Gln Ala Arg Gln Ile Phe Leu Leu Pro Leu Asn Trp
 50 55 60
 Glu Tyr Lys Lys Tyr Ile Thr Ala Lys Ala Ala Gly Asn Cys Ile Leu
 65 70 75 80
 Ser Gln

55

<210> 826

<211> 64

<212> PRT

<213> Homo sapiens

60

<400> 826

Pro Leu Val Leu Cys Xaa Ser Cys Xaa Pro Arg Phe His Pro Phe Gly
 1 5 10 15

Lys Arg Gly Xaa Cys Ala Arg Thr Gln Thr His Arg Asn Lys Leu Ser
 20 25 30
 Ala Ser Xaa Ala Phe Gly Cys Xaa Gly Ala Val Cys Ala His Ile Tyr
 35 40 45
 5 Met His Thr Thr Leu Val Cys Met Ser Arg Gly Asn Gln Xaa Leu Asn
 50 55 60

 <210> 827
 <211> 157
 10 <212> PRT
 <213> Homo sapiens

 <400> 827
 15 Ala Trp Pro Ala Leu Ala Pro Gly Ser Pro Val Pro Ala Ala Arg Pro
 1 5 10 15
 Pro Arg Ser Arg Ala Pro Phe Arg Pro Gly Arg Ser Pro Ala Gly Met
 20 25 30
 Gln Xaa Ser Pro Xaa Gly Tyr Gly Ala Gln Asp Asp Pro Pro Ala Arg
 35 40 45
 20 Arg Asp Cys Ala Trp Ala Pro Gly His Gly Ala Ala Ala Asp Thr Arg
 50 55 60
 Gly Leu Thr Ala Gly Pro Ala Ala Leu Ala Ala Pro Ala Xaa Pro Ala
 65 70 75 80
 Xaa Xaa Pro Ser Pro Gln Arg Xaa Pro Pro Arg Asn Xaa Glu Pro Gly
 25 85 90 95
 Arg Tyr Gly Leu Ser Pro Ala Gly Arg Gly Glu Arg Xaa Ala Xaa Tyr
 100 105 110
 Glu Xaa Xaa Ile Pro Leu Ala His Glu Arg Leu Xaa Gly Val Gly Lys
 115 120 125
 30 Xaa Thr Xaa Ser Lys Leu Xaa Gly Xaa Xaa Xaa Thr Arg Xaa Cys Xaa
 130 135 140
 Asn Ala Val Xaa Gln Xaa Arg Cys Trp Xaa Lys Ser Val
 145 150 155

 35 <210> 828
 <211> 138
 <212> PRT
 <213> Homo sapiens

 <400> 828
 40 Pro Gly Leu Pro Leu Arg Pro Ala Pro Gln Cys Pro Pro Pro Ala Arg
 1 5 10 15
 Arg Ala Pro Ala Leu Arg Ser Ala Gln Ala Ala Ala Gln Leu Glu Cys
 20 25 30
 45 Lys Xaa Arg Xaa Pro Ala Thr Ala His Arg Thr Thr Arg Pro Pro Ala
 35 40 45
 Ala Thr Val His Gly Pro Arg Asp Thr Gly Pro Pro Leu Thr Arg Ala
 50 55 60
 Ala Ser Pro Pro Ala Pro Pro Ser Pro Arg Pro Xaa Xaa Pro Pro
 65 70 75 80
 Xaa Arg Pro Ala Arg Ser Ala Xaa Pro Arg Ala Thr Xaa Ser Arg Gly
 85 90 95
 Ala Met Ala Ser Ala Arg Pro Ala Ala Gly Asn Ala Xaa Arg Xaa Thr
 100 105 110
 55 Ser Xaa Ala Ser Arg Trp Pro Met Asn Ala Xaa Met Gly Trp Ala Xaa
 115 120 125
 Gly Arg Xaa Ala Ser Xaa Leu Ala Xaa Xaa
 130 135

 60 <210> 829
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 829
 Arg Xaa Val Xaa Ala Pro Ser His Ala Phe Xaa Pro Ala Ser Xaa Leu
 1 5 10 15
 5 Xaa His Arg Val Xaa Ala Xaa Pro Gly Xaa Xaa Xaa Ala Xaa Gln Leu
 20 25 30
 Ala Xaa Arg Xaa Phe Ala His Pro Xaa Lys Ala Phe Met Gly Gln Arg
 35 40 45
 Asp Xaa Xaa Leu Val Xaa Arg Xaa Ala Phe Pro Ala Ala Gly Arg Ala
 10 50 55 60
 Glu Ala Ile Ala Pro Arg Leu Xaa Val Ala Arg Gly Xaa Ala Leu Arg
 65 70 75 80
 Ala Gly Xaa Xaa Gly Gly Xaa Gly Gly Arg Gly Glu Gly Gly Gly Ala
 85 90 95
 15 Gly Gly Glu Ala Ala Arg Val Ser Gly Gly Pro Val Ser Arg Gly Pro
 100 105 110
 Cys Thr Val Ala Ala Gly Gly Arg Val Val Leu Cys Ala Val Ala Xaa
 115 120 125
 Arg Arg Xaa Leu His Ser Ser Trp Ala Ala Ala Trp Ala Glu Arg Ser
 130 135 140
 20 Ala Gly Ala Arg Arg Ala Gly Gly Gly His Trp Gly Ala Gly Arg Lys
 145 150 155 160
 Gly Arg Pro Gly

25

<210> 830
 <211> 179
 <212> PRT
 <213> Homo sapiens

30

<400> 830
 Pro Ala Phe Ile Gly Glu Val Asn His Lys Glu Ile Lys Met Ser Lys
 1 5 10 15
 35 Ser Lys Asp Asp Ala Pro His Glu Leu Glu Ser Gln Phe Ile Leu Arg
 20 25 30
 Leu Pro Pro Glu Tyr Ala Ser Thr Val Arg Arg Ala Val Gln Ser Gly
 35 40 45
 His Val Asn Leu Lys Asp Arg Leu Thr Ile Glu Leu His Pro Asp Gly
 50 55 60
 40 Arg His Gly Ile Val Arg Val Asp Arg Val Pro Leu Ala Ser Lys Leu
 65 70 75 80
 Val Asp Leu Pro Cys Val Met Glu Ser Leu Lys Thr Ile Asp Lys Lys
 85 90 95
 Thr Phe Tyr Lys Thr Ala Asp Ile Cys Gln Met Leu Val Ser Thr Val
 100 105 110
 45 Asp Gly Asp Leu Tyr Pro Pro Val Glu Glu Pro Val Ala Ser Thr Asp
 115 120 125
 Pro Lys Ala Ser Lys Lys Lys Asp Lys Asp Lys Glu Lys Lys Phe Ile
 130 135 140
 50 Trp Asn His Gly Ile Thr Leu Pro Leu Lys Asn Val Arg Lys Lys Lys
 145 150 155 160
 Val Pro Glu Asp Ser Gln Arg Arg Asn Ile Leu Asn Leu Gln Met Leu
 165 170 175
 Lys Lys Lys

55

<210> 831
 <211> 135
 <212> PRT
 <213> Homo sapiens

60

<400> 831
 Leu Gly Asn Arg Lys Ala Asn Gly Gly Ser Pro Gly Thr Val Phe Gly

1 5 10 15
 Pro Glu Ser Pro Ala Glu Ile Leu Ser Thr His Lys Leu Ser Arg Asn
 20 25 30
 Lys Asp Thr Gln Lys Ile Arg Ala Gln Arg Ala Leu Phe Ala Ser Gly
 5 35 40 45
 Thr Tyr Asn Pro Val Thr Ile Ile Ser Ser Val Ser Pro Gly Arg Ser
 50 55 60
 Glu Gly Lys Arg Arg Pro Gln Gly Ala Lys Arg Glu Arg Ala Glu Arg
 65 70 75 80
 10 Leu Leu Val Val Ser Leu Ile Leu Pro Ala Ala Trp Gln Ser Asp Pro
 85 90 95
 Leu Pro Ile Thr Asp Glu Arg Ala Arg Asp Gly Gln Arg Glu Ile Leu
 100 105 110
 Pro Arg Gly Ala Ala Arg Ile Thr Arg Pro Arg Thr Ser Pro Ala Leu
 15 115 120 125
 Arg Pro Gly Arg Leu Pro Ser
 130 135

20 <210> 832
 <211> 113
 <212> PRT
 <213> Homo sapiens

25 <400> 832
 Pro Ala Phe Ile Gly Glu Val Asn His Lys Glu Ile Lys Met Ser Lys
 1 5 10 15
 Ser Lys Asp Asp Ala Pro His Glu Leu Glu Ser Gln Phe Ile Leu Arg
 20 25 30
 30 Leu Pro Pro Glu Tyr Ala Ser Thr Val Arg Arg Ala Val Gln Ser Gly
 35 40 45
 His Val Asn Leu Lys Asp Arg Leu Thr Ile Glu Leu His Pro Asp Gly
 50 55 60
 Arg His Gly Ile Val Arg Val Asp Arg Val Pro Leu Ala Ser Lys Leu
 65 70 75 80
 35 Val Asp Leu Pro Cys Val Met Glu Ser Leu Lys Thr Ile Asp Lys Lys
 85 90 95
 Thr Phe Tyr Lys Thr Ala Asp Ile Cys Gln Met Leu Val Ser Thr Val
 100 105 110
 Asp

40 <210> 833
 <211> 134
 <212> PRT
 45 <213> Homo sapiens

50 <400> 833
 Ala His Pro Val Ser Leu Lys Ser Val Leu Arg Ala Arg Phe Ser Thr
 1 5 10 15
 Phe Met Met Arg Pro Leu Xaa Val Leu Pro Cys Pro Gly Leu Leu Glu
 20 25 30
 Leu Ala Phe His Val Gly Asn Leu Xaa Xaa Asn Ser Ile Thr Ser Trp
 35 40 45
 55 Met Gly Pro Ser Xaa Ser Trp Gly Trp Ser Ser Glu Xaa Ile Asn Leu
 50 55 60
 Gly Leu Asp Xaa Xaa Ser Lys Thr Ser Ser Gly Xaa Glu Gly Xaa Ile
 65 70 75 80
 Phe Leu Ser Gly Arg Xaa Gly Leu Phe Tyr Pro Thr Gly Xaa Xaa Xaa
 85 90 95
 60 Gly Trp Lys Ser Xaa Gln Xaa Ile Cys Xaa Lys Asn Met Ala Cys Arg
 100 105 110
 Asp Lys Ile Leu Xaa Lys Lys Xaa Gly Leu Ile Xaa Pro Phe Val Ile
 115 120 125

Ser His Xaa Xaa Pro Xaa
130

5 <210> 834
<211> 128
<212> PRT
<213> Homo sapiens

<400> 834
10 Leu Gly Asn Arg Lys Ala Asn Gly Gly Ser Pro Gly Thr Val Phe Gly
1 5 10 15
Pro Glu Ser Pro Ala Glu Ile Leu Ser Thr His Lys Leu Ser Arg Asn
20 25 30
15 Lys Asp Thr Gln Lys Ile Arg Ala Gln Arg Ala Leu Phe Ala Ser Gly
35 40 45
Thr Tyr Asn Pro Val Thr Ile Ile Ser Ser Val Ser Pro Gly Arg Ser
50 55 60
Glu Gly Lys Arg Arg Pro Gln Gly Ala Lys Arg Glu Arg Ala Glu Arg
65 70 75 80
20 Leu Leu Val Val Ser Leu Ile Leu Pro Ala Ala Trp Gln Ser Asp Pro
85 90 95
Leu Pro Ile Thr Asp Glu Arg Ala Arg Asp Gly Gln Arg Glu Ile Leu
100 105 110
Pro Arg Gly Ala Ala Arg Ile Thr Arg Pro Arg Thr Ser Pro Ala Leu
25 115 120 125

<210> 835
<211> 78
<212> PRT
30 <213> Homo sapiens

<400> 835
35 Arg Ala Gly Glu Val Arg Gly Leu Val Met Arg Ala Ala Pro Leu Gly
1 5 10 15
Lys Ile Ser Arg Cys Pro Ser Arg Ala Leu Ser Ser Val Ile Gly Ser
20 25 30
Gly Ser Leu Cys Gln Ala Ala Gly Arg Ile Lys Glu Thr Thr Arg Arg
35 40 45
40 Arg Ser Ala Leu Ser Arg Leu Ala Pro Cys Gly Leu Leu Phe Pro Ser
50 55 60
Leu Arg Pro Gly Glu Thr Glu Leu Ile Ile Val Thr Gly Leu
65 70 75

<210> 836
45 <211> 107
<212> PRT
<213> Homo sapiens

<400> 836
50 Leu Leu Leu Gln Arg Ala Glu Leu Leu Leu Phe Ser Xaa Phe Leu Leu
1 5 10 15
Val Glu Leu Ile Gln Tyr Ser Leu Lys Ser Val Leu Glu Ser Gln Ile
20 25 30
Ser Thr Phe Met Met Arg Pro Leu Xaa Gly Leu Pro Cys Pro Gly Leu
35 40 45
55 Leu Gly Ala Trp Leu Tyr Gly Gly Asn Leu Leu Xaa Lys Xaa His Asn
50 55 60
Xaa Leu Asp Xaa Val Leu Xaa Phe Pro Gly Ala Gly His Leu Asp Gln
65 70 75 80
60 Leu Thr Trp Xaa Gly Thr Xaa Phe Ser Lys Xaa Ser Ser Xaa Gln Arg
85 90 95
Arg Leu Tyr Leu Leu Xaa Leu Gly Gly Xaa Gly
100 105

<210> 837
 <211> 87
 <212> PRT
 5 <213> Homo sapiens

<400> 837
 Leu Ile Gln Met Thr Ser Pro Arg Lys Xaa Lys Asp Xaa Ile Gln Xaa
 1 5 10 15
 10 Val Met Xaa Phe Xaa Lys Gln Ile Ala Thr Ile Lys Pro Ser Ser Gln
 20 25 30
 Glu Pro Arg Thr Gly Gln Thr Xaa Lys Arg Ser His His Glu Ser Gly
 35 40 45
 Asn Leu Ala Leu Lys Asn Arg Phe Gln Ala Val Leu Asp Glu Leu Asn
 15 50 55 60
 Gln Lys Glu Xaa Arg Glu Lys Glu Gln Leu Ser Ser Leu Gln Glu Glu
 65 70 75 80
 Leu Glu Ser Leu Leu Glu Lys
 85

20 <210> 838
 <211> 183
 <212> PRT
 25 <213> Homo sapiens

<400> 838
 Pro Ala Phe Ile Gly Glu Val Asn His Lys Glu Ile Lys Met Ser Lys
 1 5 10 15
 30 Ser Lys Asp Asp Ala Pro His Glu Leu Glu Ser Gln Phe Ile Leu Arg
 20 25 30
 Leu Pro Pro Glu Tyr Ala Ser Thr Val Arg Arg Ala Val Gln Ser Gly
 35 40 45
 His Val Asn Leu Lys Asp Arg Leu Thr Ile Glu Leu His Pro Asp Gly
 50 55 60
 35 Arg His Gly Ile Val Arg Val Asp Arg Val Pro Leu Ala Ser Lys Leu
 65 70 75 80
 Val Asp Leu Pro Cys Val Met Glu Ser Leu Lys Thr Ile Asp Lys Lys
 85 90 95
 Thr Phe Tyr Lys Thr Ala Asp Ile Cys Gln Met Leu Val Ser Thr Val
 100 105 110
 40 Asp Gly Asp Leu Tyr Pro Pro Val Glu Glu Pro Val Ala Ser Thr Asp
 115 120 125
 Pro Lys Ala Ser Lys Lys Lys Asp Lys Asp Lys Glu Lys Lys Phe Ile
 130 135 140
 45 Trp Asn His Gly Ile Thr Leu Pro Leu Lys Asn Val Xaa Glu Glu Lys
 145 150 155 160
 Gly Ser Gly Arg Gln Pro Lys Lys Lys Xaa Xaa Glu Ser Xaa Asp Val
 165 170 175
 Glu Lys Glu Val Lys Arg Cys
 180

<210> 839
 <211> 64
 <212> PRT
 55 <213> Homo sapiens

<400> 839
 Leu Leu Leu Gln Arg Ala Glu Leu Leu Leu Phe Ser Xaa Phe Leu Leu
 1 5 10 15
 60 Phe Glu Leu Ile Pro Val Gln Ala Trp Lys Xaa Val Leu Glu Lys Pro
 20 25 30
 Asp Phe Pro Leu Ser Trp Met Arg Xaa Leu Leu Ser Phe Leu Pro Cys
 35 40 45

Pro Gly Ser Phe Gly Ala Leu Pro Phe His Gly Xaa Asn Leu Ala Ser
 50 55 60

5 <210> 840
 <211> 79
 <212> PRT
 <213> Homo sapiens

10 <400> 840
 Glu Ala Arg Phe Ser Thr Phe Met Asp Glu Xaa Pro Leu Val Val Phe
 1 5 10 15
 Ala Leu Ser Trp Val Phe Trp Ser Leu Ala Leu Ser Trp Xaa Gln Ser
 20 25 30
 Gly Phe Leu Asn Ser His Asn Pro Ala Xaa Xaa Gly Pro Phe Ile Phe
 15 35 40 45
 Xaa Gly Xaa Gly His Phe Gly Phe His Leu Asn Leu Xaa Pro Gly Xaa
 50 55 60
 Leu Ala Xaa Ser Xaa Xaa Phe Ser Ser Arg Xaa Xaa Lys Glu Gly
 65 70 75

20 <210> 841
 <211> 57
 <212> PRT
 <213> Homo sapiens

25 <400> 841
 Lys Gly Lys Ala Pro Lys Asp Pro Gly Gln Gly Lys Asn Asp Lys Arg
 1 5 10 15
 Xaa Leu Ile His Glu Ser Gly Lys Ser Gly Phe Ser Arg Thr Xaa Phe
 30 20 25 30
 Gln Ala Cys Thr Gly Met Ser Ser Asn Lys Arg Lys Xaa Glu Lys Arg
 35 40 45
 Ser Asn Ser Ala Leu Cys Lys Arg Ser
 50 55

35 <210> 842
 <211> 57
 <212> PRT
 <213> Homo sapiens

40 <400> 842
 Thr Pro Gly Thr Gly Gln Asn Arg Gln Glu Xaa Ser His His Glu Ser
 1 5 10 15
 Gly Asn Leu Ala Leu Lys Thr Asp Phe Gln Gly Leu Tyr Trp Asp Glu
 45 20 25 30
 Leu Lys Gln Lys Glu Xaa Arg Glu Lys Glu Gln Leu Ser Ser Leu Gln
 35 40 45
 Glu Glu Leu Glu Ser Leu Leu Glu Lys
 50 55

50 <210> 843
 <211> 50
 <212> PRT
 <213> Homo sapiens

55 <400> 843
 Pro Gln Gly Gln Gly Lys Thr Asp Lys Arg Xaa Leu Ile Met Lys Val
 1 5 10 15
 Glu Ile Trp Leu Ser Arg Gln Ile Phe Arg Ala Cys Thr Gly Met Ser
 60 20 25 30
 Ser Asn Lys Arg Lys Xaa Glu Lys Arg Ser Asn Ser Ala Leu Cys Lys
 35 40 45
 Arg Ser

50

<210> 844
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 844
 10 Leu Gly Arg Arg Pro Gly Arg Arg Ala Gly Glu Val Arg Gly Leu Val
 1 5 10 15
 Met Arg Ala Ala Pro Leu Gly Lys Ile Ser Arg Cys Pro Ser Arg Ala
 20 25 30
 Leu Ser Ser Val Ile Gly Ser Gly Ser Leu Cys Gln Ala Ala Gly Arg
 35 40 45
 15 Ile Lys Glu Thr Thr Arg Arg Arg Ser Ala Leu Ser Arg Leu Ala Pro
 50 55 60
 Cys Gly Leu Leu Phe Pro Ser Leu Arg Pro Gly Glu Thr Glu Leu Ile
 65 70 75 80
 Ile Val Thr Gly Leu
 20 85

<210> 845
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 845
 30 Leu Ala Arg Glu Gln Glu Ser Lys Trp Arg Leu Pro Arg Asn Gly Phe
 1 5 10 15
 Arg Pro Arg Lys Pro Ser Arg Asp Thr Phe Asn Ser Gln Thr Leu Pro
 20 25 30
 Glu Gln Arg His Ser Lys Asn Gln Gly Ser Ala Ser Ser Leu Arg Leu
 35 35 40 45
 Gly Tyr Leu Gln Ser Ser Asp Asp Tyr Lys Phe Ser Phe Thr Gly Pro
 50 55 60
 Glu Arg Arg Glu Glu Glu Ala Ala Arg Ser Gln Ala Gly Glu Ser Arg
 65 70 75 80
 Ala Ser Pro Cys Arg Phe Leu Asn Ser Ser Cys Arg Leu Ala Glu
 85 90 95

<210> 846
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 846
 50 Leu Gly Asn Arg Lys Ala Asn Gly Gly Ser Pro Gly Thr Val Phe Gly
 1 5 10 15
 Pro Glu Ser Pro Ala Glu Ile Leu Ser Thr His Lys Leu Ser Arg Asn
 20 25 30
 Lys Asp Thr Gln Lys Ile Arg Ala Gln Arg Ala Leu Phe Ala Ser Gly
 35 40 45
 Thr Tyr Asn Pro Val Thr Ile Ile Ser Ser Val Ser Pro Gly Arg Ser
 50 55 60
 55 Glu Gly Lys Arg Arg Pro Gln Gly Ala Lys Arg Glu Arg Ala Glu Arg
 65 70 75 80
 Leu Leu Val Val Ser Leu Ile Leu Pro Ala Ala Trp Gln Ser Asp Pro
 85 90 95
 Leu Pro Ile Thr Asp Glu Arg Ala Arg Asp Gly Gln Arg Glu Ile Leu
 60 100 105 110
 Pro Arg Gly Ala Ala Arg Ile Thr Arg Pro Arg Thr Ser Pro Ala Leu
 115 120 125
 Arg Pro Gly Arg Leu Pro Ser

130 135

<210> 847
 <211> 133
 5 <212> PRT
 <213> Homo sapiens

<400> 847
 10 Leu Gly Asn Arg Lys Ala Asn Gly Gly Ser Pro Gly Thr Val Phe Gly
 1 5 10 15
 Pro Glu Ser Pro Ala Glu Ile Leu Ser Thr His Lys Leu Ser Arg Asn
 20 25 30
 Lys Asp Thr Gln Lys Ile Arg Ala Gln Arg Ala Leu Phe Ala Ser Gly
 35 40 45
 15 Thr Tyr Asn Pro Val Thr Ile Ile Ser Ser Val Ser Pro Gly Arg Ser
 50 55 60
 Glu Gly Lys Arg Arg Pro Gln Gly Ala Lys Arg Glu Arg Ala Glu Arg
 65 70 75 80
 20 Leu Leu Val Val Ser Leu Ile Leu Pro Ala Trp Gln Ser Asp Pro
 85 90 95
 Leu Pro Ile Thr Asp Glu Arg Ala Arg Asp Gly Gln Arg Glu Ile Leu
 100 105 110
 Pro Arg Gly Ala Ala Arg Ile Thr Arg Pro Arg Thr Ser Pro Ala Leu
 115 120 125
 25 Arg Pro Gly Arg Leu
 130

<210> 848
 <211> 84
 30 <212> PRT
 <213> Homo sapiens

<400> 848
 35 Gly Arg Arg Pro Gly Arg Arg Ala Gly Glu Val Arg Gly Leu Val Met
 1 5 10 15
 Arg Ala Ala Pro Leu Gly Lys Ile Ser Arg Cys Pro Ser Arg Ala Leu
 20 25 30
 Ser Ser Val Ile Gly Ser Gly Ser Leu Cys Gln Ala Ala Gly Arg Ile
 35 40 45
 40 Lys Glu Thr Thr Arg Arg Arg Ser Ala Leu Ser Arg Leu Ala Pro Cys
 50 55 60
 Gly Leu Leu Phe Pro Ser Leu Arg Pro Gly Glu Thr Glu Leu Ile Ile
 65 70 75 80
 Val Thr Gly Leu

<210> 849
 <211> 73
 50 <212> PRT
 <213> Homo sapiens

<400> 849
 55 Ala Gln Pro Met Lys Arg Ala Lys Gly Ser Xaa Lys Lys Thr Pro Xaa
 1 5 10 15
 Gly Pro Gly Ala Lys Asn Arg Pro Xaa Arg Xaa Phe Ser Phe His Glu
 20 25 30
 Lys Xaa Lys Ile Trp Ala Xaa Gln Glu Xaa Ile Ser Gly Xaa Tyr Leu
 35 40 45
 60 Asp Glu Leu Asn Gln Lys Glu Ala Arg Xaa Lys Glu Gln Leu Ser Xaa
 50 55 60
 Leu Gln Glu Glu Leu Glu Ile Pro Pro
 65 70

<210> 850
 <211> 129
 <212> PRT
 <213> Homo sapiens

5

<400> 850
 Leu Gly Asn Arg Lys Ala Asn Gly Gly Ser Pro Gly Thr Val Phe Gly
 1 5 10 15
 Pro Glu Ser Pro Ala Glu Ile Leu Ser Thr His Lys Leu Ser Arg Asn
 10 20 25 30
 Lys Asp Thr Gln Lys Ile Arg Ala Gln Arg Ala Leu Phe Ala Ser Gly
 35 40 45
 Thr Tyr Asn Pro Val Thr Ile Ile Ser Ser Val Ser Pro Gly Arg Ser
 50 55 60
 Glu Gly Lys Arg Arg Pro Gln Gly Ala Lys Arg Glu Arg Ala Glu Arg
 15 65 70 75 80
 Leu Leu Val Val Ser Leu Ile Leu Pro Ala Ala Trp Gln Ser Asp Pro
 85 90 95
 Leu Pro Ile Thr Asp Glu Arg Ala Arg Asp Gly Gln Arg Glu Ile Leu
 100 105 110
 Pro Arg Gly Ala Ala Arg Ile Thr Arg Pro Arg Thr Ser Pro Ala Leu
 115 120 125
 Arg

25

<210> 851
 <211> 95
 <212> PRT
 <213> Homo sapiens

30

<400> 851
 Leu Ala Arg Glu Gln Glu Ser Lys Trp Arg Leu Pro Arg Asn Gly Phe
 1 5 10 15
 Arg Pro Arg Lys Pro Ser Arg Asp Thr Phe Asn Ser Gln Thr Leu Pro
 20 25 30
 Glu Gln Arg His Ser Lys Asn Gln Gly Ser Ala Ser Ser Leu Arg Leu
 35 40 45
 Gly Tyr Leu Gln Ser Ser Asp Asp Tyr Lys Phe Ser Phe Thr Gly Pro
 50 55 60
 Glu Arg Arg Glu Glu Glu Ala Ala Arg Ser Gln Ala Gly Glu Ser Arg
 40 65 70 75 80
 Ala Ser Pro Cys Arg Phe Leu Asn Ser Ser Cys Arg Leu Ala Glu
 85 90 95

45

<210> 852
 <211> 80
 <212> PRT
 <213> Homo sapiens

50

<400> 852
 Gly Arg Arg Ala Gly Glu Val Arg Gly Leu Val Met Arg Ala Ala Pro
 1 5 10 15
 Leu Gly Lys Ile Ser Arg Cys Pro Ser Arg Ala Leu Ser Ser Val Ile
 20 25 30
 Gly Ser Gly Ser Leu Cys Gln Ala Ala Gly Arg Ile Lys Glu Thr Thr
 35 40 45
 Arg Arg Arg Ser Ala Leu Ser Arg Leu Ala Pro Cys Gly Leu Leu Phe
 50 55 60
 Pro Ser Leu Arg Pro Gly Glu Thr Glu Leu Ile Ile Val Thr Gly Leu
 60 65 70 75 80

<210> 853
 <211> 166

<212> PRT

<213> Homo sapiens

<400> 853

5 Pro Gln Gly Phe Phe Pro Xaa Xaa Ser Phe Ile Asn Ser Asn Pro Met
 1 5 10 15
 Pro Val Pro Thr Phe Xaa Cys Arg Xaa Arg Thr Thr Arg Lys Lys Xaa
 20 25 30
 Xaa Xaa Xaa Val Arg Asn Xaa Lys Xaa Xaa Gly Xaa Phe Pro Gly Thr
 35 40 45
 10 Gly Phe Xaa Pro Xaa Lys Pro Xaa Xaa Xaa Thr Phe Xaa Xaa Gln Leu
 50 55 60
 Ser Arg Asn Lys Asp Thr Gln Lys Ile Arg Xaa Gln Xaa Ala Phe Phe
 65 70 75 80
 15 Arg Leu Arg Gly Leu Ser Ile Pro Val Thr Ile Ile Ser Ser Val Ser
 85 90 95
 Pro Gly Arg Ser Glu Gly Lys Arg Arg Pro Gln Gly Ala Lys Arg Glu
 100 105 110
 Arg Ala Glu Arg Leu Leu Val Val Ser Leu Ile Leu Pro Ala Ala Trp
 115 120 125
 20 Gln Ser Asp Pro Leu Pro Ile Thr Asp Glu Arg Ala Arg Asp Gly Gln
 130 135 140
 Arg Glu Ile Leu Pro Arg Gly Ala Ala Arg Ile Thr Arg Pro Arg Thr
 145 150 155 160
 25 Ser Pro Ala Leu Arg Pro
 165

<210> 854

<211> 91

<212> PRT

<213> Homo sapiens

<400> 854

35 Pro Gly Arg Arg Ala Gly Glu Val Arg Gly Leu Val Met Arg Ala Ala
 1 5 10 15
 Pro Leu Gly Lys Ile Ser Arg Cys Pro Ser Arg Ala Leu Ser Ser Val
 20 25 30
 Ile Gly Ser Gly Ser Leu Cys Gln Ala Ala Gly Arg Ile Lys Glu Thr
 35 40 45
 40 Thr Arg Arg Arg Ser Ala Leu Ser Arg Leu Ala Pro Cys Gly Leu Leu
 50 55 60
 Phe Pro Ser Leu Arg Pro Gly Glu Thr Glu Leu Ile Ile Val Thr Gly
 65 70 75 80
 Met Glu Arg Pro Arg Arg Arg Lys Lys Ala Xaa
 85 90
 45

<210> 855

<211> 130

<212> PRT

<213> Homo sapiens

<400> 855

55 Ser Xaa Arg Xaa Ile Thr Xaa Ser Phe Xaa Pro Gly Xaa Lys Xaa Trp
 1 5 10 15
 Glu Lys Xaa Ser Xaa Gln Gly Pro Xaa Xaa Xaa Xaa Phe Gln Met Gly
 20 25 30
 Xaa Ala Pro Arg Xaa Asn Glu Gly Thr Xaa Ile Pro Xaa Xaa Val Xaa
 35 40 45
 60 Gly Ile Xaa Xaa Ser Gln Asp Cys Xaa Thr Xaa Lys Arg Ala Xaa Phe
 50 55 60
 Gln Lys Ala Xaa Arg Thr Gly Xaa Asn Gly Pro Lys Gly Xaa Ser Phe
 65 70 75 80
 Xaa Lys Gly Gly Lys Phe Xaa Xaa Ser Lys Asn Lys Phe Ser Gly Cys

85 90 95
 Xaa Gly Xaa Ala Gln Xaa Lys Gly Ser Pro Arg Lys Gly Ala Thr Gln
 100 105 110
 5 Leu Phe Ala Arg Xaa Ala Arg Ile Thr Pro Arg Glu Val Lys Xaa Thr
 115 120 125
 Asp Ile
 130

 <210> 856
 10 <211> 119
 <212> PRT
 <213> Homo sapiens

 <400> 856
 15 Pro Xaa Pro Xaa Xaa Pro Gly Xaa Xaa Phe Gly Lys Asn Xaa Val Xaa
 1 5 10 15
 Arg Ala Gln Xaa Xaa Xaa Tyr Ser Arg Trp Ala Xaa Pro Pro Xaa Lys
 20 20 25 30
 Met Lys Gly Pro Xaa Phe Xaa Xaa Gly Xaa Trp Glu Phe Xaa Xaa Ala
 20 35 40 45
 Arg Ile Ala Xaa Pro Xaa Lys Gly Gln Xaa Ser Lys Lys Pro Xaa Gly
 50 55 60
 Gln Xaa Lys Thr Asp Gln Arg Xaa Ser Leu Ser Xaa Lys Gly Glu Asn
 65 70 75 80
 25 Leu Xaa Phe Gln Arg Thr Asn Phe Gln Ala Val Xaa Xaa Glu Leu Asn
 85 90 95
 Xaa Lys Glu Ala Arg Glu Lys Glu Gln Leu Ser Ser Leu Gln Glu Xaa
 100 105 110
 Leu Glu Ser Leu Leu Glu Lys
 115

 <210> 857
 <211> 79
 <212> PRT
 35 <213> Homo sapiens

 <400> 857
 Arg Asp Pro Xaa Ser Xaa Xaa Gly Xaa Gly Asn Phe Xaa Lys Pro Gly
 1 5 10 15
 40 Leu Pro Xaa His Xaa Lys Gly Lys Xaa Pro Lys Ser Pro Xaa Asp Arg
 20 25 30
 Xaa Lys Arg Thr Lys Gly Xaa Leu Phe Xaa Glu Arg Gly Lys Ile Trp
 35 40 45
 Xaa Phe Lys Glu Gln Ile Phe Arg Leu Xaa Trp Xaa Ser Ser Thr Xaa
 50 55 60
 45 Arg Lys Pro Glu Lys Arg Ser Asn Ser Ala Leu Cys Lys Xaa Ser
 65 70 75

 <210> 858
 50 <211> 63
 <212> PRT
 <213> Homo sapiens

 <400> 858
 55 Xaa Leu Leu Gln Xaa Ala Glu Leu Pro Leu Phe Ser Gly Phe Leu Leu
 1 5 10 15
 Xaa Glu Leu Xaa Pro Val Gln Pro Trp Lys Xaa Val Xaa Glu Asn Xaa
 20 25 30
 Xaa Phe Pro Pro Phe Met Glu Arg Lys Thr Pro Trp Ala Val Phe Xaa
 35 40 45
 60 Pro Gly Xaa Gly Ala Phe Trp Glu Pro Gly Pro Phe Asn Gly Gly
 50 55 60

<210> 859
 <211> 76
 <212> PRT
 <213> Homo sapiens

5

<400> 859
 Xaa Ser Gly Leu Phe Thr Ser Leu Gly Xaa Asp Xaa Ser Xaa Ser Cys
 1 5 10 15
 Lys Xaa Leu Ser Cys Pro Phe Ser Arg Ala Ser Phe Xaa Xaa Ser Ser
 20 25 30
 Xaa Gln Tyr Ser Pro Gly Asn Xaa Xaa Leu Lys Thr Xaa Xaa Phe Pro
 35 40 45
 Leu Ser Trp Lys Glu Lys Pro Leu Gly Arg Phe Leu Xaa Leu Ala Xaa
 50 55 60
 Gly Leu Phe Gly Asn Leu Ala Leu Leu Met Gly Gly
 65 70 75

10

<210> 860
 <211> 71
 <212> PRT
 <213> Homo sapiens

20

<400> 860
 Ala Pro Pro Leu Lys Gly Pro Gly Ser Gln Lys Ala Xaa Gly Pro Gly
 1 5 10 15
 Xaa Lys Thr Ala Gln Gly Val Phe Leu Ser Met Lys Gly Gly Xaa Phe
 20 25 30
 Xaa Phe Ser Xaa Thr Xaa Phe Gln Gly Cys Thr Xaa Met Ser Xaa Xaa
 35 40 45
 Lys Arg Lys Pro Glu Lys Arg Gly Asn Ser Ala Xaa Cys Lys Arg Xaa
 50 55 60
 Xaa Asn Xaa Leu Leu Glu Lys
 65 70

30

<210> 861
 <211> 138
 <212> PRT
 <213> Homo sapiens

35

<400> 861
 Met Ala Gly Gly Asp Val Ala Met Leu Glu Leu Thr Gly Gln Asn Phe
 1 5 10 15
 Thr Pro Asn Leu Arg Val Trp Phe Gly Asp Val Glu Ala Glu Thr Met
 20 25 30
 Tyr Arg Cys Gly Glu Ser Met Leu Cys Val Val Pro Asp Ile Ser Ala
 35 40 45
 Phe Arg Glu Gly Trp Arg Trp Val Arg Gln Pro Val Gln Val Pro Val
 50 55 60
 Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe
 65 70 75 80
 Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His Cys Ser Ala Ala Gly
 85 90 95
 Ala Ile Leu Arg Ala Asn Ser Ser Gln Val Pro Pro Asn Glu Ser Asn
 100 105 110
 Thr Asn Ser Glu Gly Ser Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser
 115 120 125
 Val Thr Ser Ser Thr Ala Thr Val Val Ser
 130 135

40

<210> 862
 <211> 82
 <212> PRT
 <213> Homo sapiens

50

60

<400> 862
 Leu Trp Ser Glu Met Met Glu Ser Phe Ile Pro Pro Ala Leu Pro Leu
 1 5 10 15
 5 Pro Thr His Gln Asn Gln Gly Arg Gly His Ile Ala Val Gln Gln Glu
 20 25 30
 Gln Ser Phe Glu Pro Ile Gln Ala Arg Cys Pro Leu Thr Asn Gln Thr
 35 40 45
 Gln Thr Ala Arg Glu Val Thr Gln Thr Pro Ala Gln Ile Gln Pro Val
 50 55 60
 10 Ser His His Leu Gln Pro Gln Trp Tyr Pro Asn Tyr Arg Leu Phe Ala
 65 70 75 80
 Arg Thr
 15
 <210> 863
 <211> 84
 <212> PRT
 <213> Homo sapiens
 20
 <400> 863
 Met Ile Pro Ser Phe Arg Thr Lys Val Thr Gly Thr Trp Thr Gly Cys
 1 5 10 15
 Arg Thr His Leu Gln Pro Ser Arg Asn Ala Glu Met Ser Gly Thr Thr
 20 25 30
 25 Gln Ser Ile Leu Ser Pro His Leu Tyr Ile Val Ser Ala Ser Thr Ser
 35 40 45
 Pro Asn His Thr Arg Lys Phe Gly Val Lys Phe Cys Pro Val Ser Ser
 50 55 60
 30 Ser Ile Ala Thr Ser Pro Ala Ile Gln Leu Lys Ala Leu Tyr His
 65 70 75 80
 Xaa Xaa Gln Xaa
 35
 <210> 864
 <211> 138
 <212> PRT
 <213> Homo sapiens
 40
 <400> 864
 Met Ala Gly Gly Asp Val Ala Met Leu Glu Leu Thr Gly Gln Asn Phe
 1 5 10 15
 Thr Pro Asn Leu Arg Val Trp Phe Gly Asp Val Glu Ala Glu Thr Met
 20 25 30
 45 Tyr Arg Cys Gly Glu Ser Met Leu Cys Val Val Pro Asp Ile Ser Ala
 35 40 45
 Phe Arg Glu Gly Trp Arg Trp Val Arg Gln Pro Val Gln Val Pro Val
 50 55 60
 Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe
 50 65 70 75 80
 Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His Cys Ser Ala Ala Gly
 85 90 95
 Ala Ile Leu Arg Ala Asn Ser Ser Gln Val Pro Pro Asn Glu Ser Asn
 100 105 110
 55 Thr Asn Ser Glu Gly Ser Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser
 115 120 125
 Val Thr Ser Ser Thr Ala Thr Val Val Ser
 130 135
 60
 <210> 865
 <211> 218
 <212> PRT
 <213> Homo sapiens

<400> 865
 Phe Lys Gly Phe Pro Glu Lys Glu Asn Gly Ile Xaa Ala Leu Phe Ser
 1 5 10 15
 5 Lys Lys Lys Asn Ile Ser Asn Xaa Gln Ala His Ser His Val Gln Lys
 20 25 30
 Asp Pro Asn Lys Glu Met Ile Asn Asp Gly Arg Phe Leu Xaa Asn Ser
 35 40 45
 10 Leu Xaa Gln Ile Xaa Gln Glu Tyr Thr Phe Tyr Glu Gly Met Gly Pro
 50 55 60
 Val Leu Ala Pro Val Thr Pro Val Pro Val Val Glu Ser Leu Gln Leu
 65 70 75 80
 Asn Gly Gly Gly Asp Val Ala Met Leu Glu Leu Thr Gly Gln Asn Phe
 85 90 95
 15 Thr Pro Asn Leu Arg Val Trp Phe Gly Asp Val Glu Ala Glu Thr Met
 100 105 110
 Tyr Arg Cys Gly Glu Ser Met Leu Cys Val Val Pro Asp Ile Ser Ala
 115 120 125
 20 Phe Arg Glu Gly Trp Arg Trp Val Arg Gln Pro Val Gln Val Pro Val
 130 135 140
 Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe
 145 150 155 160
 Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His Cys Ser Ala Ala Gly
 165 170 175
 25 Ala Ile Leu Arg Ala Asn Ser Ser Gln Val Pro Pro Asn Glu Ser Asn
 180 185 190
 Thr Asn Ser Glu Gly Ser Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser
 195 200 205
 30 Val Thr Ser Ser Thr Ala Thr Val Val Ser
 210 215

<210> 866
 <211> 109
 <212> PRT
 35 <213> Homo sapiens

<400> 866
 Asn Tyr Val Gln Val Trp Xaa Lys Val Cys Xaa Cys Val Val Pro Xaa
 1 5 10 15
 40 Ile Phe Ala Phe Arg Xaa Gly Trp Xaa Trp Val Arg Gln Pro Val Gln
 20 25 30
 Val Pro Val Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser Thr Ser
 35 40 45
 45 Leu Thr Phe Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His Cys Ser
 50 55 60
 Ala Ala Gly Ala Ile Leu Arg Ala Asn Ser Ser Gln Xaa Pro Pro Asn
 65 70 75 80
 Glu Ser Asn Xaa Asn Ser Glu Gly Ser Tyr Xaa Asn Ala Ser Thr Asn
 85 90 95
 50 Ser Thr Xaa Val Thr Ser Xaa Thr Ala Xaa Xaa Val Ser
 100 105

<210> 867
 <211> 98
 55 <212> PRT
 <213> Homo sapiens

<400> 867
 Gly Glu Asn Gly Ala Pro Trp Ser Phe Gly Pro Xaa Val His Phe Leu
 1 5 10 15
 60 Gly Ala Leu Gly Xaa Lys Xaa Pro Phe Lys Phe Lys Trp Arg Val Gly
 20 25 30
 Thr Xaa Gln Met Leu Glu Leu Thr Gly Gln Asn Phe Thr Pro Asn Leu

35 40 45
 Xaa Ser Val Val Trp Gly Xaa Xaa Ser Leu Lys Leu Cys Thr Gly Val
 50 55 60
 Xaa Lys Ser Met Xaa Leu Cys Arg Pro Xaa His Phe Cys Ile Pro Xaa
 5 65 70 75 80
 Arg Leu Xaa Met Gly Pro Ala Thr Ser Pro Gly Ser Ser Asn Phe Gly
 85 90 95
 Pro Lys
 10
 <210> 868
 <211> 102
 <212> PRT
 <213> Homo sapiens
 15
 <400> 868
 Phe His His Phe Gly Pro Lys Leu Leu Glu Pro Gly Leu Val Ala Gly
 1 5 10 15
 Pro Xaa Ser Asn Leu Xaa Gly Met Gln Lys Cys Xaa Gly Arg His Xaa
 20 20 25 30
 Ser Ile Leu Xaa Ser Thr Pro Val His Ser Phe Lys Leu Xaa His Pro
 35 40 45
 Gln Thr Thr Leu Xaa Lys Phe Gly Val Lys Phe Cys Pro Val Ser Ser
 50 55 60
 25 Ser Ile Xaa Tyr Val Pro Thr Arg His Leu Asn Leu Lys Xaa Phe Phe
 65 70 75 80
 Xaa Pro Lys Ala Pro Arg Lys Trp Thr Xaa Gly Pro Lys Asp Gln Gly
 85 90 95
 Ala Pro Phe Ser Pro Gln
 30 100
 <210> 869
 <211> 115
 <212> PRT
 35 <213> Homo sapiens
 <400> 869
 Met Ile Pro Ser Phe Arg Thr Lys Val Thr Gly Thr Trp Thr Gly Cys
 1 5 10 15
 40 Arg Thr His Phe Gln Pro Xaa Arg Asn Ala Lys Met Ser Gly Thr Thr
 20 25 30
 Gln Ser Ile Xaa Xaa Pro His Leu Tyr Ile Val Ser Ala Xaa Thr Ser
 35 40 45
 Pro Asn His Thr Arg Lys Ile Xaa Ser Glu Asn Ser Val Leu Val Ser
 45 50 55 60
 Ser Ser Ile Ala Thr Ser Xaa Pro Ala Ile Xaa Thr Gly Arg Xaa Xaa
 65 70 75 80
 Leu Xaa Gln Gly Pro Xaa Asn Glu Leu Gly Gly Lys Gly Pro Xaa Ala
 85 90 95
 50 Pro Phe Pro Ser Xaa Lys Xaa Val Leu Pro Leu Gly Pro Tyr Phe Trp
 100 105 110
 Gly Pro Lys
 115
 55 <210> 870
 <211> 174
 <212> PRT
 <213> Homo sapiens
 60 <400> 870
 Gly Pro Arg Gly Asn Xaa Phe Xaa Ile Glu Gly Asn Gly Ala Xaa Gly
 1 5 10 15
 Pro Leu Pro Pro Ser Ser Phe Xaa Gly Pro Xaa Gly Lys Xaa Xaa Leu

20 25 30
 Pro Val Xaa Met Ala Xaa Gly Asp Val Ala Met Leu Glu Leu Thr Arg
 35 40 45
 5 Thr Glu Phe Ser Leu Xaa Ile Leu Arg Val Trp Phe Gly Asp Val Xaa
 50 55 60
 Ala Glu Thr Met Tyr Arg Cys Gly Xaa Ser Met Leu Cys Val Val Pro
 65 70 75 80
 Asp Ile Phe Ala Phe Arg Xaa Gly Trp Lys Trp Val Arg Gln Pro Val
 85 90 95
 10 Gln Val Pro Val Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser Thr
 100 105 110
 Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His Cys
 115 120 125
 Ser Ala Ala Gly Ala Thr Leu Arg Ala Asn Ser Ser Gln Xaa Pro Pro
 130 135 140
 15 Asn Glu Ser Asn Xaa Asn Ser Glu Gly Ser Tyr Thr Asn Ala Ser Thr
 145 150 155 160
 Asn Ser Thr Ser Val Thr Ser Xaa Thr Ala Xaa Val Val Ser
 165 170
 20
 <210> 871
 <211> 237
 <212> PRT
 <213> Homo sapiens
 25
 <400> 871
 Lys Thr Leu Tyr Ile Ser Asp Ser Asp Lys Arg Lys His Phe Met Leu
 1 5 10 15
 30 Ser Val Lys Met Phe Tyr Gly Asn Ser Asp Asp Ile Gly Val Phe Leu
 20 25 30
 Ser Lys Arg Ile Lys Val Ile Ser Lys Pro Ser Lys Lys Lys Gln Ser
 35 40 45
 Leu Lys Asn Ala Asp Leu Cys Ile Ala Ser Gly Thr Lys Val Ala Leu
 50 55 60
 35 Phe Asn Arg Leu Arg Ser Gln Thr Val Ser Thr Arg Tyr Leu His Val
 65 70 75 80
 Glu Gly Gly Asn Phe His Ala Ser Ser Gln Gln Trp Gly Ala Phe Phe
 85 90 95
 Ile His Leu Leu Asp Asp Asp Glu Ser Glu Gly Glu Glu Phe Thr Val
 100 105 110
 40 Arg Asp Gly Tyr Ile His Tyr Gly Gln Thr Val Lys Leu Val Cys Ser
 115 120 125
 Val Thr Gly Met Ala Leu Pro Arg Leu Ile Ile Arg Lys Val Asp Lys
 130 135 140
 45 Gln Thr Ala Leu Leu Asp Ala Asp Asp Pro Val Ser Gln Leu His Lys
 145 150 155 160
 Cys Ala Phe Tyr Leu Lys Asp Thr Glu Arg Met Tyr Leu Cys Leu Ser
 165 170 175
 Gln Glu Arg Ile Ile Gln Phe Gln Ala Thr Pro Cys Pro Lys Glu Pro
 180 185 190
 50 Asn Lys Glu Met Ile Asn Asp Gly Ala Xaa Trp Thr Ile Ile Ser Thr
 195 200 205
 Asp Lys Ala Glu Tyr Thr Phe Tyr Xaa Gly Met Gly Pro Val Leu Ala
 210 215 220
 55 Pro Ile Thr Pro Val Pro Val Val Lys Lys Ala Phe Xaa
 225 230 235
 60
 <210> 872
 <211> 179
 <212> PRT
 <213> Homo sapiens
 <400> 872

Leu Asn Asp Gly Ala Ser Trp Pro Phe Ile Ser Xaa Asp Lys Ala Glu
 1 5 10 15
 Tyr Thr Phe Tyr Glu Gly Met Gly Pro Val Xaa Ala Pro Val Thr Pro
 20 25 30
 5 Val Pro Val Val Glu Ser Leu Gln Leu Asn Gly Gly Gly Asp Val Ala
 35 40 45
 Met Leu Glu Leu Thr Gly Gln Asn Phe Thr Pro Asn Leu Arg Val Trp
 50 55 60
 Phe Gly Asp Val Glu Ala Glu Thr Met Tyr Arg Cys Gly Glu Ser Met
 10 65 70 75 80
 Leu Cys Val Val Pro Asp Ile Ser Ala Phe Arg Glu Gly Trp Arg Trp
 85 90 95
 Val Arg Gln Pro Val Gln Val Pro Val Thr Leu Val Arg Asn Asp Gly
 100 105 110
 15 Ile Ile Tyr Ser Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro Gly
 115 120 125
 Pro Arg Pro His Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala Asn Ser
 130 135 140
 Ser Gln Val Pro Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser Tyr
 20 145 150 155 160
 Thr Asn Ala Ser Thr Asn Ser Thr Ser Val Thr Ser Ser Thr Ala Thr
 165 170 175
 Val Val Ser

25

<210> 873
 <211> 170
 <212> PRT
 <213> Homo sapiens

30

<400> 873
 Pro Arg Ile Gly Gln Ser Xaa His Phe Tyr Glu Gly Met Gly Pro Cys
 1 5 10 15
 Pro Cys Pro Ser His Xaa Cys Ala Cys Gly Xaa Glu Pro Ser Val Glu
 20 25 30
 35 Trp Arg Val Gly Thr Val Ala Met Leu Glu Leu Thr Gly Gln Asn Phe
 35 40 45
 Thr Pro Asn Leu Arg Val Trp Phe Gly Asp Val Glu Ala Glu Thr Met
 50 55 60
 40 Tyr Arg Cys Gly Glu Ser Met Leu Cys Val Val Pro Asp Ile Ser Ala
 65 70 75 80
 Phe Arg Glu Gly Trp Arg Trp Val Arg Gln Pro Val Gln Val Pro Val
 85 90 95
 Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe
 100 105 110
 45 Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His Cys Ser Ala Ala Gly
 115 120 125
 Ala Ile Leu Arg Ala Asn Ser Ser Gln Val Pro Pro Asn Glu Ser Asn
 130 135 140
 50 Thr Asn Ser Glu Gly Ser Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser
 145 150 155 160
 Val Thr Ser Ser Thr Ala Thr Val Val Ser
 165 170

55

<210> 874
 <211> 132
 <212> PRT
 <213> Homo sapiens

60

<400> 874
 Gln Cys Leu Asn Phe Thr Xaa Gln Asn Phe Thr Pro Asn Leu Arg Val
 1 5 10 15
 Trp Phe Gly Asp Val Glu Ala Glu Thr Met Tyr Arg Cys Gly Glu Ser

20 25 30
 Met Leu Cys Val Val Pro Asp Ile Xaa Ala Phe Arg Glu Gly Trp Arg
 35 40 45
 Trp Val Arg Gln Pro Val Gln Val Pro Val Thr Leu Val Arg Asn Asp
 5 50 55 60
 Gly Ile Ile Tyr Ser Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro
 65 70 75 80
 Gly Pro Arg Pro His Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala Asn
 85 90 95
 10 Ser Ser Gln Val Pro Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser
 100 105 110
 Tyr Thr Asn Ala Ser Thr Asn Ser Thr Ser Val Thr Ser Ser Thr Ala
 115 120 125
 Thr Val Val Ser
 15 130

<210> 875

<211> 160

<212> PRT

20 <213> Homo sapiens

<400> 875

Ile Gly Ser Lys Asp Cys Ser Cys Cys Thr Ala Met Trp Pro Arg Pro
 5 10 15
 25 Trp Phe Trp Cys Val Gly Lys Gly Lys Ala Gly Gly Ile Asn Asp Ser
 20 25 30
 Ile Ile Ser Asp Gln Ser Tyr Trp Asn Leu Asp Trp Leu Pro Asp Pro
 35 40 45
 Ser Pro Thr Xaa Ser Glu Cys Lys Asn Val Trp Asp Asp Thr Lys His
 30 50 55 60
 Thr Xaa Ser Thr Pro Xaa His Lys Phe Gln Ala Xaa Thr Ser Pro Asn
 65 70 75 80
 His Thr Arg Lys Phe Gly Val Lys Phe Cys Pro Val Ser Ser Lys His
 85 90 95
 35 Trp Tyr Val Pro Thr Ala Ile Gln Leu Xaa Xaa Xaa Phe His Xaa Pro
 100 105 110
 Xaa Xaa Asp Trp Gly Lys Asp Xaa Xaa His Ser Leu Xaa Lys Gly Tyr
 115 120 125
 40 Ser Gly Xaa Ser Gly Xaa Lys Xaa Gly Gln Xaa Xaa Pro His Leu Ser
 130 135 140
 Thr Xaa Tyr Leu Gly Leu Leu Glu Ile Gly Gly Ala Xaa Asn Xaa Ile
 145 150 155 160

<210> 876

45 <211> 129

<212> PRT

<213> Homo sapiens

<400> 876

50 Thr Tyr Arg Thr Glu Phe His Ser Lys Phe Thr Ser Val Val Trp Gly
 1 5 10 15
 Cys Xaa Ser Leu Lys Leu Met Xaa Arg Cys Gly Xaa Ser Met Leu Cys
 20 25 30
 Val Val Pro Asp Ile Phe Ala Phe Arg Xaa Gly Trp Arg Trp Val Arg
 55 35 40 45
 Gln Pro Val Gln Val Pro Val Thr Leu Val Arg Asn Asp Gly Ile Ile
 50 55 60
 Tyr Ser Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro Gly Pro Arg
 65 70 75 80
 60 Pro His Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala Asn Ser Ser Gln
 85 90 95
 Xaa Pro Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser Tyr Xaa Asn
 100 105 110

Ala Ser Xaa Asn Ser Thr Ser Val Thr Ser Xaa Thr Ala Xaa Val Val
 115 120 125
 Ser

5

<210> 877
 <211> 126
 <212> PRT
 <213> Homo sapiens

10

<400> 877
 Xaa Asn Xaa Gly Pro Leu Gln Phe Pro Lys Asp Pro Asn Lys Xaa Leu
 1 5 10 15
 Ile Asn Glu Xaa Leu Xaa Gly Xaa Ser Xaa Ala Gln Ile Xaa Gln Ser
 20 25 30
 Ile Leu Xaa Ile Arg Asn Xaa Xaa Cys Pro Cys Pro Ser Xaa Xaa Trp
 35 40 45
 Xaa Cys Gly Lys Xaa Xaa Ser Val Glu Trp Arg Trp Gly Arg Thr Asn
 50 55 60
 Ala Leu Asn Leu Gln Asp Arg Ile Ser Leu Gln Ile Tyr Glu Cys Gly
 65 70 75 80
 Leu Gly Met Xaa Lys Leu Glu Thr Tyr Xaa Gln Val Trp Xaa Glu Tyr
 85 90 95
 Ala Leu Cys Arg Pro Arg His Phe Cys Ile Pro Xaa Arg Leu Glu Met
 100 105 110
 Gly Pro Ala Thr Ser Pro Gly Ser Ser Asn Phe Gly Pro Lys
 115 120 125

<210> 878
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 878
 Gly Lys Trp Ala Xaa Ser Xaa Ala Pro Val Ile Leu Val Pro Val Glu
 1 5 10 15
 Lys Xaa Xaa Gln Leu Asn Gly Gly Gly Asp Val Pro Met Leu Glu Leu
 20 25 30
 Thr Gly Xaa Asn Phe Thr Pro Asn Leu Arg Val Trp Phe Gly Asp Val
 35 40 45
 Xaa Ala Glu Thr Met Tyr Arg Cys Gly Xaa Ser Met Xaa Cys Val Val
 50 55 60
 Pro Asp Ile Xaa Ala Phe Arg Xaa Gly Trp Arg Trp Val Arg Gln Pro
 65 70 75 80
 Val Gln Val Pro Val Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser
 85 90 95
 Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro Gly Pro Arg Pro His
 100 105 110
 Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala Asn Ser Ser Gln Val Pro
 115 120 125
 Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser Tyr Xaa Asn Ala Ser
 130 135 140
 Thr Asn Ser Thr Ser Val Thr Ser Xaa Thr Ala Xaa Val Val Ser
 145 150 155

55

<210> 879
 <211> 111
 <212> PRT
 <213> Homo sapiens

60

<400> 879
 Lys Leu Lys Leu Met Tyr Arg Cys Gly Xaa Ser Met Xaa Cys Val Val
 1 5 10 15

Pro Xaa Ile Xaa Ala Phe Arg Xaa Gly Trp Arg Trp Val Arg Gln Pro
 20 25 30
 Val Gln Val Pro Val Thr Leu Val Arg Asn Asp Gly Ile Ile Tyr Ser
 35 40 45
 5 Xaa Ser Leu Thr Phe Thr Tyr Thr Pro Xaa Pro Gly Pro Arg Pro His
 50 55 60
 Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala Asn Ser Ser Gln Xaa Pro
 65 70 75 80
 10 Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser Tyr Xaa Asn Ala Ser
 85 90 95
 Thr Asn Ser Thr Ser Val Thr Ser Xaa Thr Ala Xaa Val Val Ser
 100 105 110

 <210> 880
 15 <211> 96
 <212> PRT
 <213> Homo sapiens

 <400> 880
 20 Gly Gln Ser Ile Leu Xaa Ile Arg Xaa Trp Ala Xaa Xaa Leu Pro Gln
 1 5 10 15
 Ser Phe Leu Gly Xaa Gly Lys Xaa Pro Ser Val Glu Trp Arg Gly Asp
 20 25 30
 Val Xaa Met Phe Glu Leu Thr Xaa Gln Asn Phe Thr Pro Asn Leu Arg
 25 35 40 45
 Val Trp Phe Gly Asp Val Lys Ala Glu Thr Tyr Val Gln Val Trp Xaa
 50 55 60
 Glu Tyr Ala Xaa Cys Arg Pro Xaa His Xaa Cys Ile Pro Xaa Arg Leu
 65 70 75 80
 30 Glu Met Gly Pro Ala Thr Ser Pro Gly Ser Ser Asn Phe Gly Pro Lys
 85 90 95

 <210> 881
 <211> 247
 35 <212> PRT
 <213> Homo sapiens

 <400> 881
 40 Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg Val Leu Ala Pro His
 1 5 10 15
 Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe Gly Ala Asp Ala Arg
 20 25 30
 Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala Asp Ala Val Ala Val
 35 40 45
 45 Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile Glu Gln Ser Trp Gly
 50 55 60
 Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val Ala Lys Ser Ile Asp
 65 70 75 80
 Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys Leu Val Gln Asp Val
 85 90 95
 50 Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly Thr Thr Thr Ala Thr
 100 105 110
 Val Leu Ala Arg Ser Ile Ala Lys Glu Gly Phe Glu Lys Ile Ser Lys
 115 120 125
 55 Gly Ala Asn Pro Val Glu Ile Xaa Arg Gly Val Met Leu Ala Val Asp
 130 135 140
 Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys Pro Val Thr Thr Pro
 145 150 155 160
 Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala Asn Gly Asp Lys Glu
 165 170 175
 60 Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys Val Gly Arg Lys Gly
 180 185 190
 Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn Asp Glu Leu Glu Ile

195 200 205
 Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile Ser Pro Tyr Phe Ile
 210 215 220
 Asn Thr Ser Lys Gly Gln Lys Cys Glu Xaa Gln Asp Ala Tyr Val Leu
 5 225 230 235 240
 Val Ser Glu Lys Xaa Asn Xaa
 245

 <210> 882
 10 <211> 123
 <212> PRT
 <213> Homo sapiens

 <400> 882
 15 Pro Arg Ser Asn Phe Met Pro Ser Ile Ile Ser Asn Ser Ser Phe Ser
 1 5 10 15
 Val Phe Pro Ser Phe Thr Val Met Thr Pro Phe Leu Pro Thr Phe Phe
 20 20 25 30
 Ile Ala Ser Glu Met Ile Leu Pro Ile Ser Leu Ser Pro Phe Ala Glu
 20 35 40 45
 Ile Val Ala Thr Cys Ala Ile Ser Ser Gly Val Val Thr Gly Leu Asp
 50 55 60
 Cys Phe Leu Ser Ser Ala Ile Thr Ala Ser Thr Ala Asn Ile Thr Pro
 65 70 75 80
 25 Leu Xaa Ile Ser Thr Gly Leu Ala Pro Leu Leu Ile Phe Ser Lys Pro
 85 90 95
 Ser Leu Ala Ile Glu Arg Ala Ser Thr Val Ala Val Val Val Pro Ser
 100 105 110
 Pro Ala Ser Ser Phe Val Leu Leu Ala Thr Ser
 30 115 120

 <210> 883
 <211> 96
 <212> PRT
 35 <213> Homo sapiens

 <400> 883
 Lys Lys Cys Arg Val Leu Lys Asp Leu Leu Lys Ser Xaa Arg Lys Ile
 1 5 10 15
 40 Met Gln Lys Phe Leu Gln Lys Val Gly Tyr Asp Ala Lys Gly Xaa Arg
 20 25 30
 Phe Cys Glu Tyr Gly Glu Lys Gly Ser Phe Asp Pro Pro Lys Val Val
 35 40 45
 Arg Thr Ala Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr
 45 50 55 60
 Ala Xaa Val Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly
 65 70 75 80
 Met Gly Ala Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly Met Phe
 85 90 95
 50

 <210> 884
 <211> 212
 <212> PRT
 <213> Homo sapiens
 55

 <400> 884
 Leu Ala Glu Arg Thr Pro Cys Arg Arg Pro Ala Glu Met Leu Arg Leu
 1 5 10 15
 Pro Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg Val Leu Ala Pro
 60 20 25 30
 His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe Gly Ala Asp Ala
 35 40 45
 Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala Asp Ala Val Ala
 328

50 55 60
 Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile Glu Gln Ser Trp
 65 70 75 80
 Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val Ala Lys Ser Ile
 5 85 90 95
 Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys Leu Val Gln Asp
 100 105 110
 Val Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly Thr Thr Thr Ala
 115 120 125
 10 Thr Val Leu Ala Arg Ser Ile Ala Lys Glu Gly Phe Glu Lys Ile Ser
 130 135 140
 Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val Met Leu Ala Val
 145 150 155 160
 Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys Pro Val Thr Thr
 15 165 170 175
 Pro Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala Asn Gly Asp Lys
 180 185 190
 Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys Val Gly Arg Xaa
 195 200 205
 20 Gly Val Ile Gln
 210

<210> 885
 <211> 123
 25 <212> PRT
 <213> Homo sapiens

<400> 885
 Gly Ser Lys Phe Asn Ala Phe Lys Asn Phe Leu Ile His Pro Phe Arg
 1 5 10 15
 Val Xaa Pro Ser Phe Tyr Trp Met Thr Xaa Phe Leu Pro Thr Phe Phe
 20 25 30
 Ile Ala Ser Glu Met Ile Leu Pro Ile Ser Leu Ser Pro Phe Ala Glu
 35 35 40 45
 Ile Val Ala Thr Cys Ala Ile Ser Ser Gly Val Val Thr Gly Leu Asp
 50 55 60
 Cys Phe Leu Ser Ser Ala Ile Thr Ala Ser Thr Ala Asn Ile Thr Pro
 65 70 75 80
 Leu Leu Ile Ser Thr Gly Leu Ala Pro Leu Leu Ile Phe Ser Lys Pro
 40 85 90 95
 Ser Leu Ala Ile Glu Arg Ala Ser Thr Val Ala Val Val Val Pro Ser
 100 105 110
 Pro Ala Ser Ser Phe Val Leu Leu Ala Thr Ser
 115 120
 45

<210> 886
 <211> 107
 <212> PRT
 <213> Homo sapiens

50 <400> 886
 Thr Val Thr Gly Ser Pro Arg Gln Cys Ser Ser Pro Ile Thr Ser Glu
 1 5 10 15
 Lys Ser Val Gly Glu Asn Glu Glu Lys Gly Trp Leu Lys Ile Thr Ile
 55 20 25 30
 Thr Ile Ser Tyr Trp Phe Gln Leu Thr Lys Tyr Ile Met Val Tyr Cys
 35 40 45
 Cys His Cys Pro Cys Leu Gln Ile Ile Tyr Phe Val Phe Leu Asn Lys
 50 55 60
 60 Lys His Leu Tyr Ile Pro Asp Thr Gly Tyr Lys Ser His Val Pro Val
 65 70 75 80
 Tyr Cys Phe Gln Leu Lys Ser Leu Arg His Phe Tyr Tyr Tyr Ser Val
 85 90 95

Lys Ile Arg Ile Leu Val Leu Ala Thr Thr Arg
100 105

5 <210> 887
<211> 107
<212> PRT
<213> Homo sapiens

10 <400> 887
Thr Val Thr Gly Ser Pro Arg Gln Cys Ser Ser Pro Ile Thr Ser Glu
1 5 10 15
Lys Ser Val Gly Glu Asn Glu Glu Lys Gly Trp Leu Lys Ile Thr Ile
20 25 30
Thr Ile Ser Tyr Trp Phe Gln Leu Thr Lys Tyr Ile Met Val Tyr Cys
15 35 40 45
Cys His Cys Pro Cys Leu Gln Ile Ile Tyr Phe Val Phe Leu Asn Lys
50 55 60
Lys His Leu Tyr Ile Pro Asp Thr Gly Tyr Lys Ser His Val Pro Val
65 70 75 80
20 Tyr Cys Phe Gln Leu Lys Ser Leu Arg His Phe Tyr Tyr Tyr Ser Val
85 90 95
Lys Ile Arg Ile Leu Val Leu Ala Xaa Thr Arg
100 105

25 <210> 888
<211> 88
<212> PRT
<213> Homo sapiens

30 <400> 888
Asn Met Pro Pro Pro Ile Pro Pro Ser Ile Pro Pro Ile Ala Pro Ile
1 5 10 15
Pro Gly Ser Phe Ser Ser Leu Gly Ile Ser Val Thr Thr Thr Ser Ala
20 25 30
35 Val Val Asn Lys Arg Gly Pro Thr Gln Gln His Pro Ile Lys Ala Val
35 40 45
Leu Thr Thr Phe Gly Trp Gly Asn Asp Ser Phe Phe Xaa Pro Tyr Ser
50 55 60
Pro Lys Ile Xaa Pro Ala Xaa Ser Ile Ile Thr Xaa Leu Xaa Gly Gly
40 65 70 75 80
Lys Leu Cys Ile Asn Phe Leu Asn
85

45 <210> 889
<211> 107
<212> PRT
<213> Homo sapiens

50 <400> 889
Thr Val Thr Gly Ser Pro Arg Gln Cys Ser Ser Pro Ile Thr Ser Glu
1 5 10 15
Lys Ser Val Gly Glu Asn Glu Glu Lys Gly Trp Leu Lys Ile Thr Ile
20 25 30
Thr Ile Ser Tyr Trp Phe Gln Leu Thr Lys Tyr Ile Met Val Tyr Cys
55 35 40 45
Cys His Cys Pro Cys Leu Gln Ile Ile Tyr Phe Val Phe Leu Asn Lys
50 55 60
Lys His Leu Tyr Ile Pro Asp Thr Gly Tyr Lys Ser His Val Pro Val
65 70 75 80
60 Tyr Cys Phe Gln Leu Lys Ser Leu Arg His Phe Tyr Tyr Tyr Ser Val
85 90 95
Lys Ile Arg Ile Leu Val Leu Ala Thr Thr Arg
100 105

5 <210> 890
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 890
 Ser Thr Ser Leu Gly Val Arg Thr Cys His Leu Pro Tyr His Leu Pro
 1 5 10 15
 10 Phe His Pro Leu His Pro Phe Gln Gly Pro Phe Ser Ser Phe Xaa Asn
 20 25 30
 Phe Trp Gly Leu Gln Leu Leu Leu Val Val Asn Arg Glu Gly Pro His
 35 40 45
 15 Gln Ala Ala Phe Pro Ile Lys Pro Val Xaa His Gln Pro Phe Gly Trp
 50 55 60
 Gly Gln Arg Ile
 65

20 <210> 891
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 891
 25 Thr Val Thr Gly Ser Pro Arg Gln Cys Ser Ser Pro Ile Thr Ser Glu
 1 5 10 15
 Lys Ser Val Gly Glu Asn Glu Glu Lys Gly Trp Leu Lys Ile Thr Ile
 20 25 30
 Thr Ile Ser Tyr Trp Phe Gln Leu Thr Lys Tyr Ile Met Val Tyr Cys
 35 40 45
 30 Cys His Cys Pro Cys Leu Gln Ile Ile Tyr Phe Val Phe Leu Asn Lys
 50 55 60
 Lys His Leu Tyr Ile Pro Asp Thr Gly Tyr Lys Ser His Val Pro Val
 65 70 75 80
 35 Tyr Cys Phe Gln Leu Lys Ser Leu Arg His Phe Tyr Tyr Tyr Ser Val
 85 90 95
 Lys Ile Arg Ile Leu Val Leu Ala Thr Thr Arg
 100 105

40 <210> 892
 <211> 66
 <212> PRT
 <213> Homo sapiens

45 <400> 892
 Asp Phe Gly Glu Tyr Gly Glu Lys Gly Ile Ile Asp Xaa Thr Lys Gly
 1 5 10 15
 Cys Glu Asn Cys Phe Tyr Trp Met Leu Leu Gly Val Xaa Ser Leu Leu
 20 25 30
 50 Thr Thr Ala Glu Val Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp
 35 40 45
 Pro Gly Met Gly Ala Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly
 50 55 60
 Met Phe
 55 65

60 <210> 893
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Ala Met Ala Tyr Leu Ala Trp Arg Leu Ala Arg Arg Ser Cys Pro

1 5 10 15
 Ser Ser Leu Gln Val Thr Ser Phe Pro Val Val Gln Leu His Met Asn
 20 25 30
 Arg Thr Ala Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn
 5 35 40 45
 Gln Val Lys Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys
 50 55 60
 Leu Tyr Ala Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro
 65 70 75 80
 10 Lys Pro Gly Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp
 85 90 95
 Asn Ala Leu Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val
 100 105 110
 Asp Leu Val Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val
 15 115 120 125
 Glu Pro Gly Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val
 130 135 140
 Thr Ser Glu Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys
 145 150 155 160
 20 Lys Asn Ala Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu
 165 170 175
 Lys Ala Ala Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn
 180 185 190
 Gly Asp Tyr Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile
 25 195 200 205
 Pro Pro Gly Gly Val Glu Glu Lys Ala
 210 215

 <210> 894
 30 <211> 156
 <212> PRT
 <213> Homo sapiens

 <400> 894
 35 Leu Gln Gly Gly Asn Gly Pro Ala Val Gly Ile Ser Val Thr Leu Leu
 1 5 10 15
 Gly Leu Phe Asp Ala Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr
 20 25 30
 Pro Phe Ser His Leu Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr
 40 35 40 45
 Phe Pro Lys Ile Met Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe
 50 55 60
 Gly Lys Lys Leu Thr Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr
 65 70 75 80
 45 Glu Val Phe Pro Asp Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu
 85 90 95
 Lys Ala Phe Ala Lys Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu
 100 105 110
 Val Ile Arg Lys Arg Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu
 50 115 120 125
 Glu Cys Asn Val Leu Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn
 130 135 140
 Ala Val Val Asn Phe Leu Ser Arg Lys Ser Lys Leu
 145 150 155
 55
 <210> 895
 <211> 195
 <212> PRT
 <213> Homo sapiens
 60
 <400> 895
 Val Leu Gly Leu Glu Thr Gly Ala Ala Phe Val Ser Glu Val Thr Ser
 1 5 10 15

Phe Pro Val Val Gln Leu His Met Asn Arg Thr Ala Met Arg Ala Ser
 20 25 30
 Gln Lys Asp Phe Glu Asn Ser Met Asn Gln Val Lys Leu Leu Lys Lys
 35 40 45
 5 Asp Pro Gly Asn Glu Val Lys Leu Lys Leu Tyr Ala Leu Tyr Lys Gln
 50 55 60
 Ala Thr Glu Gly Pro Cys Asn Met Pro Lys Pro Gly Val Phe Asp Leu
 65 70 75 80
 10 Ile Asn Lys Ala Lys Trp Asp Ala Trp Asn Ala Leu Gly Ser Leu Pro
 85 90 95
 Lys Glu Ala Ala Arg Gln Asn Tyr Val Asp Leu Val Ser Ser Leu Ser
 100 105 110
 Pro Ser Leu Glu Ser Ser Ser Gln Val Glu Pro Gly Thr Asp Arg Lys
 115 120 125
 15 Ser Thr Gly Phe Glu Thr Leu Val Val Thr Ser Glu Asp Gly Ile Thr
 130 135 140
 Lys Ile Met Phe Asn Arg Pro Lys Lys Lys Asn Ala Ile Asn Thr Glu
 145 150 155 160
 20 Met Tyr His Glu Ile Met Arg Ala Leu Lys Ser Xaa Xaa Gln Xaa Met
 165 170 175
 Thr Gln Ser Ser Leu Val Leu Thr Arg Lys Trp Xaa Thr Ile Thr Ser
 180 185 190
 Lys Trp Glu
 195
 25
 <210> 896
 <211> 176
 <212> PRT
 <213> Homo sapiens
 30
 <400> 896
 Asn Asn Xaa Val Leu Leu Arg Xaa Phe Val Xaa Cys Phe Ile Asp Phe
 1 5 10 15
 35 Pro Lys Pro Leu Ile Ala Val Val Asn Gly Pro Ala Val Gly Ile Xaa
 20 25 30
 Val Thr Leu Leu Gly Leu Phe Asp Xaa Val Tyr Ala Ser Asp Arg Ala
 35 40 45
 Thr Phe His Thr Pro Phe Ser His Leu Gly Gln Ser Pro Glu Gly Cys
 50 55 60
 40 Ser Ser Tyr Thr Phe Pro Lys Ile Met Ser Pro Ala Lys Ala Thr Glu
 65 70 75 80
 Met Leu Ile Phe Gly Lys Lys Leu Thr Ala Gly Glu Ala Cys Ala Gln
 85 90 95
 45 Gly Leu Val Thr Glu Val Phe Pro Asp Ser Thr Phe Gln Lys Glu Val
 100 105 110
 Trp Thr Arg Leu Lys Ala Phe Ala Lys Leu Pro Pro Asn Ala Leu Arg
 115 120 125
 Ile Ser Lys Glu Val Ile Arg Lys Arg Glu Arg Glu Lys Leu His Ala
 130 135 140
 50 Val Asn Ala Glu Glu Cys Asn Val Leu Gln Gly Arg Trp Leu Ser Asp
 145 150 155 160
 Glu Cys Thr Asn Ala Val Val Asn Phe Leu Ser Arg Lys Ser Lys Leu
 165 170 175
 55
 <210> 897
 <211> 217
 <212> PRT
 <213> Homo sapiens
 60
 <400> 897
 Met Ala Met Ala Tyr Leu Ala Trp Arg Leu Ala Arg Arg Ser Cys Pro
 1 5 10 15
 Ser Ser Leu Gln Val Thr Ser Phe Pro Val Val Gln Leu His Met Asn

20 25 30
 Arg Thr Ala Met Arg Ala Ser Gln Lys Asp Phe Glu Asn Ser Met Asn
 35 40 45
 5 Gln Val Lys Leu Leu Lys Lys Asp Pro Gly Asn Glu Val Lys Leu Lys
 50 55 60
 Leu Tyr Ala Leu Tyr Lys Gln Ala Thr Glu Gly Pro Cys Asn Met Pro
 65 70 75 80
 Lys Pro Gly Val Phe Asp Leu Ile Asn Lys Ala Lys Trp Asp Ala Trp
 85 90 95
 10 Asn Ala Leu Gly Ser Leu Pro Lys Glu Ala Ala Arg Gln Asn Tyr Val
 100 105 110
 Asp Leu Val Ser Ser Leu Ser Pro Ser Leu Glu Ser Ser Ser Gln Val
 115 120 125
 15 Glu Pro Gly Thr Asp Arg Lys Ser Thr Gly Phe Glu Thr Leu Val Val
 130 135 140
 Thr Ser Glu Asp Gly Ile Thr Lys Ile Met Phe Asn Arg Pro Lys Lys
 145 150 155 160
 Lys Asn Ala Ile Asn Thr Glu Met Tyr His Glu Ile Met Arg Ala Leu
 165 170 175
 20 Lys Ala Ala Ser Lys Asp Asp Ser Ile Ile Thr Val Leu Thr Gly Asn
 180 185 190
 Gly Asp Tyr Tyr Ser Ser Gly Asn Asp Leu Thr Asn Phe Thr Asp Ile
 195 200 205
 Xaa Pro Gly Gly Val Xaa Glu Lys Ala
 210 215

<210> 898

<211> 158

<212> PRT

30 <213> Homo sapiens

<400> 898

Ala Ser Asp Xaa Ser Gly Asn Gly Pro Ala Val Gly Ile Xaa Val Thr
 1 5 10 15
 35 Leu Leu Gly Leu Phe Asp Xaa Val Tyr Ala Ser Asp Arg Ala Thr Phe
 20 25 30
 His Thr Pro Phe Ser His Xaa Gly Gln Ser Pro Glu Gly Cys Ser Ser
 35 40 45
 Tyr Thr Phe Pro Lys Ile Met Ser Pro Ala Lys Ala Thr Glu Met Leu
 40 50 55 60
 Ile Phe Gly Lys Lys Leu Thr Ala Gly Glu Ala Cys Ala Gln Gly Leu
 65 70 75 80
 Val Thr Glu Val Phe Pro Asp Ser Thr Phe Gln Lys Glu Val Trp Thr
 85 90 95
 45 Arg Leu Lys Ala Phe Ala Lys Leu Pro Pro Asn Ala Leu Arg Ile Ser
 100 105 110
 Lys Glu Val Ile Arg Lys Arg Glu Arg Glu Lys Leu His Ala Val Asn
 115 120 125
 Ala Glu Glu Cys Asn Val Leu Gln Gly Arg Trp Leu Ser Asp Glu Cys
 50 130 135 140
 Thr Asn Ala Val Val Asn Phe Leu Ser Arg Lys Ser Lys Leu
 145 150 155

<210> 899

55 <211> 156

<212> PRT

<213> Homo sapiens

<400> 899

60 Leu Gln Trp Ser Met Val Gln Leu Trp Ala Ser Pro Ser Pro Ser Leu
 1 5 10 15
 Gly Leu Phe Asp Ala Val Tyr Ala Ser Asp Arg Ala Thr Phe His Thr
 20 25 30

Pro Phe Ser His Leu Gly Gln Ser Pro Glu Gly Cys Ser Ser Tyr Thr
 35 40 45
 Phe Pro Lys Ile Met Ser Pro Ala Lys Ala Thr Glu Met Leu Ile Phe
 50 55 60
 5 Gly Lys Lys Leu Thr Ala Gly Glu Ala Cys Ala Gln Gly Leu Val Thr
 65 70 75 80
 Glu Val Phe Pro Asp Ser Thr Phe Gln Lys Glu Val Trp Thr Arg Leu
 85 90 95
 Lys Ala Phe Ala Lys Leu Pro Pro Asn Ala Leu Arg Ile Ser Lys Glu
 100 105 110
 10 Val Ile Arg Lys Arg Glu Arg Glu Lys Leu His Ala Val Asn Ala Glu
 115 120 125
 Glu Cys Asn Val Leu Gln Gly Arg Trp Leu Ser Asp Glu Cys Thr Asn
 130 135 140
 15 Ala Val Val Asn Phe Leu Ser Arg Lys Ser Lys Leu
 145 150 155

<210> 900
 <211> 108
 20 <212> PRT
 <213> Homo sapiens

<400> 900
 Leu Leu Lys Asn His Thr Asp Lys Gln Leu Ser Asn Lys Thr Gly Leu
 25 1 5 10 15
 Val Gly Phe Leu Ala Cys Leu Thr Asn Met Thr Asp Phe Leu Ser Gln
 20 25 30
 Ala Leu Leu Xaa Lys Thr Ser Cys Gly Asn Gln Ala Arg Asp Lys Asn
 35 40 45
 30 Ser Ser Leu Met Gln Leu Gly Glu Arg Glu Arg Leu Glu Thr Ser Leu
 50 55 60
 Ala Ser Asn Ser Thr His Ser His Leu Cys Val Ser Ala Leu Leu Gln
 65 70 75 80
 Ala Gln Tyr Ala Xaa Cys Arg Asp Gly Gln Met Phe Arg Val Gly Ser
 85 90 95
 35 Gly Thr Phe Gln Pro Ala Lys Ser Ala Glu Val Ile
 100 105

<210> 901
 40 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 901
 45 Phe Tyr Asn Ala Leu Tyr Leu Ile Lys Glu Phe Ala Phe Phe Val Tyr
 1 5 10 15
 Thr Gly Met Leu Tyr Ser Leu Cys Ile Leu Gln Gly Tyr Lys Met Ser
 20 25 30
 Leu Ile Leu Asn Ile Thr Pro Lys Val Ile Ser Glu Lys Lys Gly Phe
 35 40 45
 50 Leu Lys Leu Asn Leu Thr Phe Lys Lys Ser Tyr Gly Gln Thr Thr Phe
 50 55 60
 Lys Gln Asn Trp Ile Ser Arg Ile Ser Cys Leu Leu Asn
 65 70 75

<210> 902
 <211> 221
 <212> PRT
 60 <213> Homo sapiens

<400> 902
 Gln Asn Asp Asp Ala Glu Val Ser Leu Met Glu Val Arg Phe Tyr Val
 1 5 10 15

Pro Pro Thr Gln Glu Asp Gly Val Asp Pro Val Glu Ala Phe Ala Gln
 20 25 30
 Asn Val Leu Ser Lys Ala Asp Val Ile Gln Ala Thr Gly Asp Ala Ile
 35 40 45
 5 Cys Ile Phe Arg Glu Leu Gln Cys Leu Thr Pro Arg Gly Arg Tyr Asp
 50 55 60
 Ile Arg Ile Tyr Pro Thr Phe Leu His Leu His Gly Lys Thr Phe Asp
 65 70 75 80
 Tyr Lys Ile Pro Tyr Thr Thr Val Leu Arg Leu Phe Leu Leu Pro His
 85 90 95
 10 Lys Asp Gln Arg Gln Met Phe Phe Val Ile Ser Leu Asp Pro Pro Ile
 100 105 110
 Lys Gln Gly Gln Thr Arg Tyr His Phe Leu Ile Leu Leu Phe Ser Lys
 115 120 125
 15 Asp Glu Asp Ile Ser Leu Thr Leu Asn Met Asn Glu Glu Val Glu
 130 135 140
 Lys Arg Phe Glu Gly Arg Leu Thr Lys Asn Met Ser Gly Ser Leu Tyr
 145 150 155 160
 Glu Met Val Ser Arg Val Met Lys Ala Leu Val Asn Arg Lys Ile Thr
 165 170 175
 20 Val Pro Gly Asn Phe Gln Gly His Ser Gly Ala Gln Cys Ile Thr Cys
 180 185 190
 Ser Tyr Lys Ala Lys Leu Xaa Thr Ala Leu Pro Ala Gly Ala Gly Leu
 195 200 205
 25 His Leu Arg Xaa Gln Ala Thr Cys Ala His Xaa Leu Arg
 210 215 220

<210> 903

<211> 170

<212> PRT

<213> Homo sapiens

<400> 903

Gly Arg Glu Ser Xaa Met Arg Ile Trp Ile Leu His Cys Pro Ala Ser
 1 5 10 15
 His Pro Xaa Xaa Pro Gln Ile Ile Asn Ser His Pro Trp Glu Ala Ala
 20 25 30
 Lys Leu Xaa Arg Leu Pro Thr Ala Leu Gly Thr Tyr Xaa Pro Thr Gly
 35 40 45
 40 Xaa His Val Xaa Met Ala Xaa Asn Pro Gly Thr Ala Phe His Glu Xaa
 50 55 60
 Lys Leu Val Gln Asn Met Gly Gly Glu Ser Gly Gly Val Lys Arg Gln
 65 70 75 80
 Ala Gln Xaa Glu Pro Ser Ser Val Ser Thr His Arg Ile Leu Thr Leu
 85 90 95
 45 Lys Pro Xaa Ser Trp Gly Glu Tyr Trp Leu Val Leu Leu Leu Xaa Xaa
 100 105 110
 Pro Arg Ser Ser Ser Xaa Xaa Xaa Cys Ser Xaa Ser Leu Pro Glu Lys
 115 120 125
 50 Xaa Xaa Ser Leu Xaa Thr Asn Xaa Leu Leu Phe Glu Ala Leu Ala Leu
 130 135 140
 Thr Ala Leu Xaa Gly Arg Leu Xaa Ile Xaa Glu Pro Pro Xaa Xaa Gly
 145 150 155 160
 Xaa Gly Phe Leu Phe Pro Phe Xaa Thr Leu
 165 170

<210> 904

<211> 266

<212> PRT

<213> Homo sapiens

<400> 904

Gln Ser Thr Val Ala Ser Gly Thr Val Ala Arg Val Glu Pro Asn Ile

1 5 10 15
 Lys Trp Phe Gly Asn Thr Arg Val Ile Lys Gln Ser Ser Leu Gln Lys
 20 25 30
 5 Phe Gln Glu Glu Met Asp Thr Val Met Lys Asp Pro Tyr Lys Val Val
 35 40 45
 Met Lys Gln Ser Lys Leu Pro Met Ser Leu Leu His Asp Arg Ile Arg
 50 55 60
 Pro His Asn Leu Lys Val His Ile Leu Asp Thr Glu Ser Phe Glu Thr
 65 70 75 80
 10 Thr Phe Gly Pro Lys Ser Gln Arg Lys Arg Pro Asn Leu Phe Ala Ser
 85 90 95
 Asp Met Gln Ser Leu Ile Glu Asn Ala Glu Met Ser Thr Glu Ser Tyr
 100 105 110
 Asp Gln Gly Lys Asp Arg Asp Leu Val Thr Glu Asp Thr Gly Val Arg
 115 120 125
 15 Asn Glu Ala Gln Glu Glu Ile Tyr Lys Lys Gly Gln Ser Lys Arg Ile
 130 135 140
 Trp Gly Glu Leu Tyr Lys Val Ile Asp Ser Ser Asp Val Val Val Gln
 145 150 155 160
 20 Val Leu Asp Ala Arg Asp Pro Met Gly Thr Arg Ser Pro His Ile Glu
 165 170 175
 Thr Tyr Leu Lys Lys Glu Lys Pro Trp Lys His Leu Ile Phe Val Leu
 180 185 190
 Asn Lys Cys Asp Leu Val Pro Thr Trp Ala Thr Lys Arg Xaa Val Ala
 195 200 205
 25 Val Leu Phe Gln Asp Tyr Pro Thr Leu Ala Xaa His Ala Ser Leu Thr
 210 215 220
 Xaa Pro Phe Gly Lys Gly Ala Phe Ile His Xaa Cys Gly Ser Phe Gly
 225 230 235 240
 30 Lys Leu Pro Thr Xaa Gln Glu Asn Arg Ser Xaa Val Gly Ser Leu Ala
 245 250 255
 Phe Pro Lys Val Gly Lys Glu Xaa Leu Gly
 260 265
 35 <210> 905
 <211> 257
 <212> PRT
 <213> Homo sapiens
 40 <400> 905
 Gly Ser Xaa Ser Xaa Lys Thr Gln Pro Arg Pro Xaa Pro Gly Gly Glu
 1 5 10 15
 Ser Pro Xaa Xaa Leu Gln Gly Xaa Gly Ser Arg Phe Xaa Pro Xaa Xaa
 20 25 30
 45 Arg Xaa Xaa Lys Gly Pro Val Pro Cys Val Cys Leu Pro Gln Arg Cys
 35 40 45
 Ser Xaa Xaa Xaa Xaa Glu Xaa Xaa Arg Thr Leu Val Lys Ser Thr Trp
 50 55 60
 Xaa Leu Ser Phe Leu Gly Met Xaa Trp Phe Xaa Trp Arg Cys Gln Xaa
 65 70 75 80
 Phe Glu Glu Glu Leu Glu Ser Phe Phe Asp Glu Glu Glu Glu Gln
 85 90 95
 Glu Xaa Gln Arg Asp Xaa Ala Glu Glu Xaa Ser Ser Glu Pro Glu Glu
 100 105 110
 55 Glu Asn Val Gly Asn Asp Xaa Lys Ala Val Ile Lys Xaa Leu Asp Glu
 115 120 125
 Lys Ile Ala Lys Tyr Gln Lys Phe Leu Asp Lys Ala Lys Ala Lys Lys
 130 135 140
 Phe Ser Ala Val Arg Ile Ser Lys Gly Leu Ser Glu Lys Ile Phe Ala
 145 150 155 160
 60 Lys Pro Glu Glu Gln Xaa Xaa Xaa Leu Glu Glu Asp Val Asp Xaa Arg
 165 170 175
 Ala Pro Ser Lys Lys Gly Lys Lys Arg Lys Xaa Gln Arg Glu Glu Glu

180 185 190
 Gln Glu His Ser Asn Lys Ala Pro Arg Xaa Leu Thr Ser Lys Glu Arg
 195 200 205
 Arg Arg Ala Val Arg Gln Gln Arg Pro Lys Lys Val Gly Val Arg Xaa
 210 215 220
 Tyr Glu Xaa Pro Asn Val Lys Asn Arg Asn Arg Asn Lys Lys Lys Thr
 225 230 235 240
 Asn Asp Ser Glu Gly Gln Lys Xaa Xaa Arg Lys Lys Phe Arg Gln Lys
 245 250 255
 10 Gln

<210> 906
 <211> 242
 15 <212> PRT
 <213> Homo sapiens

<400> 906
 Ala Glu Lys Leu Arg Ser Val Val Met Pro Met Glu Lys Glu Ile Ala
 1 5 10 15
 Ala Leu Lys Asp Lys Leu Thr Glu Ala Glu Asp Lys Ile Lys Glu Leu
 20 25 30
 Glu Ala Ser Lys Val Lys Glu Leu Asn His Tyr Leu Glu Ala Glu Lys
 35 40 45
 25 Ser Cys Arg Thr Asp Leu Glu Met Tyr Val Ala Val Leu Asn Thr Gln
 50 55 60
 Lys Ser Val Leu Gln Glu Asp Ala Glu Lys Leu Arg Lys Glu Leu His
 65 70 75 80
 Glu Val Cys His Leu Leu Glu Gln Glu Arg Gln Gln His Asn Gln Leu
 30 85 90 95
 Lys His Thr Trp Gln Lys Ala Asn Asp Gln Phe Leu Glu Ser Gln Arg
 100 105 110
 Leu Leu Met Arg Asp Met Gln Arg Met Glu Ile Val Leu Thr Ser Glu
 115 120 125
 35 Gln Leu Arg Gln Val Glu Glu Leu Lys Lys Lys Asp Gln Glu Asp Asp
 130 135 140
 Glu Gln Gln Arg Leu Asn Lys Arg Lys Asp His Lys Lys Ala Asp Val
 145 150 155 160
 Glu Glu Glu Ile Lys Ile Pro Val Val Cys Ala Leu Thr Gln Glu Glu
 40 165 170 175
 Ser Ser Ala Gln Leu Ser Asn Glu Glu Glu His Leu Asp Ser Thr Arg
 180 185 190
 Gly Ser Val His Ser Leu Xaa Ala Gly Leu Leu Leu Pro Ser Gly Asp
 195 200 205
 45 Pro Phe Ser Lys Ser Asp Asn Asp Met Phe Lys Asp Gly Leu Arg Arg
 210 215 220
 Ala Gln Ser Ser Arg Gln Leu Trp Asp Pro Arg Ala His Cys Asn Xaa
 225 230 235 240
 Lys Leu

<210> 907
 <211> 84
 <212> PRT
 55 <213> Homo sapiens

<400> 907
 Pro Ser Gln Ile Lys Val Phe Phe Xaa Xaa Xaa Gly Pro Pro Ser Lys
 1 5 10 15
 60 Lys Phe Phe Xaa Ser Xaa Lys Lys Gly Xaa Gly Xaa Lys Lys Phe Xaa
 20 25 30
 Pro Xaa Leu Gly Lys Gly Xaa Gly Val Ser Xaa Gly Ala Lys Ser Xaa
 35 40 45

Pro Xaa Gly Asn Phe Leu Phe Trp Xaa Lys Lys Pro Xaa Xaa Ser Xaa
 50 55 60
 Leu Ser Phe Val Xaa Pro Met Cys Phe Gly Tyr Lys Gln Xaa Xaa Val
 65 70 75 80
 5 Ser Leu Ser Arg

 <210> 908
 <211> 108
 10 <212> PRT
 <213> Homo sapiens

 <400> 908
 Asn Pro Thr Glu Leu Phe Phe Cys Leu Lys Gly Leu Asn Xaa Ala Xaa
 1 5 10 15
 Tyr Ile Lys Xaa Pro Phe Met Leu Lys Thr Gln Leu Lys Glu Leu Val
 20 25 30
 Ser Thr Trp Thr Gly Thr Xaa Xaa Phe Val Tyr Thr Gln Asn Thr Leu
 35 40 45
 20 Xaa Xaa Gln Asn Leu Xaa Ser Ser Xaa Xaa Val Phe Xaa Thr Lys Lys
 50 55 60
 Gly Asn Ser His Xaa Xaa Gly Ile Leu Pro Gln Xaa Lys Pro Leu Xaa
 65 70 75 80
 Leu Ser Leu Asn Xaa Gly Xaa Ile Phe Leu Xaa Xaa Pro Leu Phe Phe
 25 85 90 95
 Xaa Xaa Lys Lys Ile Phe Trp Lys Gly Ala Gln Xaa
 100 105

 <210> 909
 30 <211> 114
 <212> PRT
 <213> Homo sapiens

 <400> 909
 35 Ala Phe Leu Leu Pro Lys Arg Ala Lys Xaa Cys Leu Xaa His Gln Xaa
 1 5 10 15
 Pro Ile Tyr Ala Glu Asn Pro Ile Glu Arg Ile Gly Phe Tyr Leu Asp
 20 25 30
 Arg Asp Thr Xaa Xaa Cys Leu Tyr Pro Lys His Ile Xaa Xaa Thr Lys
 40 35 40 45
 Leu Xaa Lys Leu Xaa Xaa Gly Phe Xaa Tyr Gln Lys Arg Lys Phe Pro
 50 55 60
 Xaa Gly Xaa Asp Phe Ala Pro Xaa Glu Thr Pro Xaa Pro Phe Pro Lys
 65 70 75 80
 45 Xaa Gly Xaa Asn Phe Phe Xaa Xaa Pro Pro Phe Phe Xaa Xaa Lys Lys
 85 90 95
 Asn Phe Leu Glu Gly Gly Pro Xaa Leu Xaa Lys Lys Thr Phe Ile Trp
 100 105 110
 Glu Gly
 50

 <210> 910
 <211> 164
 <212> PRT
 55 <213> Homo sapiens

 <400> 910
 Lys Met Ala Ala Pro Glu Lys Met Thr Phe Pro Glu Lys Pro Ser His
 1 5 10 15
 60 Lys Lys Tyr Arg Ala Ala Leu Lys Lys Glu Lys Arg Lys Lys Arg Arg
 20 25 30
 Gln Glu Leu Ala Arg Leu Arg Asp Ser Gly Leu Ser Gln Lys Glu Glu
 35 40 45

Glu Glu Asp Thr Phe Ile Glu Glu Gln Gln Leu Glu Glu Lys Leu
 50 55 60
 Leu Glu Arg Glu Arg Gln Arg Leu His Glu Glu Trp Leu Leu Arg Glu
 65 70 75 80
 5 Gln Lys Ala Gln Glu Glu Phe Arg Ile Lys Lys Glu Lys Glu Glu Ala
 85 90 95
 Ala Lys Lys Arg Gln Glu Glu Gln Glu Arg Lys Leu Lys Glu Gln Trp
 100 105 110
 10 Glu Glu Gln Gln Arg Lys Glu Arg Glu Glu Glu Glu Gln Lys Arg Gln
 115 120 125
 Glu Lys Lys Glu Lys Glu Glu Ala Leu Gln Lys Met Leu Asp Gln Ala
 130 135 140
 Glu Asn Glu Leu Glu Asn Gly Thr Thr Trp Gln Asn Pro Glu Pro Pro
 145 150 155 160
 15 Trp Ile Ser Glu

<210> 911
 <211> 141
 20 <212> PRT
 <213> Homo sapiens

<400> 911
 Ser Ser Ile Phe Cys Lys Ala Ser Ser Phe Ser Phe Ser Cys Arg
 25 1 5 10 15
 Phe Cys Ser Ser Ser Ser Leu Ser Phe Leu Cys Cys Ser Ser His Cys
 20 25 30
 Ser Phe Asn Phe Leu Ser Cys Ser Ser Cys Arg Phe Leu Ala Ala Ser
 35 40 45
 30 Ser Phe Ser Phe Phe Ile Leu Asn Ser Ser Cys Ala Phe Cys Ser Leu
 50 55 60
 Ser Asn His Ser Ser Cys Asn Leu Cys Leu Ser Leu Ser Asn Ser Phe
 65 70 75 80
 Ser Ser Ser Ser Cys Cys Ser Ser Ile Lys Val Ser Ser Ser Ser Ser
 35 85 90 95
 Phe Cys Glu Ser Pro Glu Ser Leu Ser Arg Ala Ser Ser Cys Arg Arg
 100 105 110
 Phe Phe Arg Phe Ser Phe Phe Arg Ala Ala Leu Tyr Phe Leu Trp Leu
 115 120 125
 40 Gly Phe Ser Gly Asn Val Ile Phe Ser Gly Ala Ala Ile
 130 135 140

<210> 912
 <211> 184
 45 <212> PRT
 <213> Homo sapiens

<400> 912
 Pro Gly Glu Lys Trp Arg Phe Gly Phe Phe Xaa Lys Pro Pro Asn Val
 50 1 5 10 15
 Gln Xaa Glu Xaa Pro Ala Xaa Phe Phe Met Gly Ser Glu Ile Xaa Xaa
 20 25 30
 Ile Ile Phe Gly Xaa Val Ile Xaa Thr Phe Xaa Cys Phe Xaa Ile Gly
 35 40 45
 55 Leu Xaa Xaa Pro Leu Gly Xaa Thr Pro Lys Xaa Gly Lys Gly Trp Ala
 50 55 60
 Pro Pro Xaa Ile Phe Xaa Xaa Gly Xaa Gly Glu Xaa Lys Xaa Leu Val
 65 70 75 80
 Gln Xaa Xaa Pro Xaa Lys Lys Met Gly Asn Pro Lys Gly Lys Xaa Xaa
 60 85 90 95
 Val Pro Gly Gly Xaa Xaa Phe Xaa Asn Ala Xaa Gln Lys Xaa Gly Xaa
 100 105 110
 Gly Pro Ile Xaa Glu Ala Lys Glu Lys Ile Gly Pro Pro Xaa Gly Pro

115 120 125
 Pro Pro Gly Ala Gly Ala Pro Gly Xaa Gly Xaa Gly Xaa Gly Xaa Pro
 130 135 140
 Gly Xaa Pro Pro Xaa Gly Ala Lys Val Pro Xaa Gly Pro Xaa Xaa Xaa
 5 145 150 155 160
 Ala Xaa Gly Gly Xaa Val Xaa Xaa Xaa Xaa Xaa Xaa Val Xaa Asn
 165 170 175
 Pro Xaa Lys Leu Val Xaa Phe Phe
 180
 10
 <210> 913
 <211> 181
 <212> PRT
 <213> Homo sapiens
 15
 <400> 913
 Lys Met Ala Ile Trp Val Phe Xaa Lys Thr Pro Gln Cys Pro Xaa Gly
 1 5 10 15
 Xaa Pro Cys Xaa Phe Phe His Gly Phe Arg Asn Pro Xaa Asn Tyr Phe
 20 20 25 30
 Trp Xaa Gly Asn Xaa Xaa Ile Xaa Leu Phe Pro Xaa Arg Thr Gly Xaa
 35 40 45
 Xaa Phe Gly Xaa Asn Ser Gln Xaa Arg Glu Arg Met Gly Pro Pro Xaa
 50 55 60
 25 Asp Phe Xaa Xaa Arg Leu Xaa Gly Xaa Lys Xaa Pro Ser Pro Xaa Xaa
 65 70 75 80
 Ser Xaa Lys Lys Asn Gly Glu Ser Gln Arg Lys Ser Xaa Xaa Pro Arg
 85 90 95
 Gly Xaa Xaa Phe Pro Xaa Arg Xaa Ser Lys Ser Xaa Xaa Xaa Pro Asn
 100 105 110
 30 Xaa Arg Ser Lys Gly Lys Asn Arg Ala Pro Xaa Arg Ala Pro Thr Arg
 115 120 125
 Gly Arg Gly Thr Arg Xaa Arg Xaa Arg Xaa Arg Xaa Pro Arg Xaa Pro
 130 135 140
 35 Pro Xaa Arg Ser Gln Ser Ser Phe Xaa Ser Xaa Xaa Xaa Gly Xaa Arg
 145 150 155 160
 Arg Xaa Gly Xaa Lys Xaa Xaa Thr Xaa Xaa Ser Pro Xaa Ser Lys Xaa
 165 170 175
 Thr Ser Phe Xaa Phe
 180
 40
 <210> 914
 <211> 114
 <212> PRT
 45 <213> Homo sapiens
 <400> 914
 Lys Xaa Lys Leu Val Xaa Leu Asp Xaa Gly Xaa Xaa Xaa Val Xaa Xaa
 1 5 10 15
 50 Xaa Leu Pro Xaa Leu Xaa Leu Xaa Xaa Xaa Asp Xaa Lys Glu Leu
 20 25 30
 Trp Leu Arg Xaa Gly Gly Xaa Leu Gly Xaa Arg Xaa Arg Xaa Arg Xaa
 35 40 45
 Arg Val Pro Arg Pro Arg Val Gly Ala Leu Xaa Gly Ala Leu Phe Phe
 50 55 60
 Pro Leu Leu Arg Xaa Leu Gly Xaa Ser Xaa Leu Phe Xaa Gly Arg Xaa
 65 70 75 80
 Gly Xaa Xaa Phe Pro Leu Gly Xaa Xaa Leu Phe Leu Trp Asp Ser Pro
 85 90 95
 60 Phe Phe Xaa Xaa Xaa Gly Xaa Gly Leu Gly Xaa Xaa Leu Pro Xaa Asn
 100 105 110
 Leu Xaa

<210> 915
 <211> 202
 <212> PRT
 5 <213> Homo sapiens

<400> 915
 Pro Asn Leu His Xaa Trp Glu Ser Ala Leu Met Ile Trp Gly Ser Ile
 1 5 10 15
 10 Glu Lys Glu His Asp Lys Leu His Glu Glu Ile Gln Asn Leu Ile Lys
 20 25 30
 Ile Gln Ala Ile Ala Val Cys Met Glu Asn Gly Asn Phe Lys Glu Ala
 35 40 45
 Glu Glu Val Phe Glu Arg Ile Phe Gly Asp Pro Asn Ser His Met Pro
 50 55 60
 15 Phe Lys Ser Lys Leu Leu Met Ile Ile Ser Gln Lys Asp Thr Phe His
 65 70 75 80
 Ser Phe Phe Gln His Phe Ser Tyr Asn His Met Met Glu Lys Ile Lys
 85 90 95
 20 Ser Tyr Val Asn Tyr Val Leu Ser Glu Lys Ser Ser Thr Phe Leu Met
 100 105 110
 Lys Ala Ala Ala Lys Val Val Glu Ser Lys Arg Thr Arg Thr Ile Thr
 115 120 125
 Ser Gln Asp Lys Pro Ser Gly Asn Asp Val Glu Met Glu Thr Glu Ala
 130 135 140
 25 Asn Leu Asp Thr Arg Lys Ser Val Ser Asp Lys Gln Ser Ala Val Thr
 145 150 155 160
 Glu Ser Ser Glu Gly Thr Val Ser Leu Leu Arg Ser His Lys Asn Leu
 165 170 175
 30 Phe Leu Ser Lys Leu Gln His Gly Thr Gln Gln Gln Asp Leu Asn Lys
 180 185 190
 Lys Glu Arg Arg Val Gly Thr Pro Gln Ser
 195 200

35 <210> 916
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 916
 Leu Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu
 1 5 10 15
 Ala Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys
 20 25 30
 45 Glu Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu
 35 40 45
 Ser Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys
 50 55 60
 Glu Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu
 65 70 75 80
 50 Ala Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr
 85 90 95
 Gln Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His
 100 105 110
 55 Arg Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln
 115 120 125
 Glu Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu
 130 135 140
 Glu Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg
 145 150 155 160
 60 Leu Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg
 165 170 175
 Gln Glu Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala

180 185 190
 Gln Ala Leu Gln Pro Ser Lys Glu Ser Arg Ser Leu Pro Gln Lys Ile
 195 200 205
 Ser Lys Trp Asn Pro Pro Cys Lys Thr
 210 215
 5
 <210> 917
 <211> 107
 <212> PRT
 10 <213> Homo sapiens
 <400> 917
 Pro Lys Lys Leu Asp Gln Xaa Ser Gln Lys Pro Arg Ser Glu Ile Ala
 1 5 10 15
 15 Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys Xaa
 20 25 30
 Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly Arg
 35 40 45
 Val His Glu Xaa Met Lys Gln Arg Leu Arg Gln Leu Asp Lys His Ser
 20 50 55 60
 Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln Asn Gln
 65 70 75 80
 Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp Arg Leu Arg
 85 90 95
 25 Thr Gln Leu Pro Ser Met Pro Gln Xaa Asp Cys
 100 105
 <210> 918
 <211> 98
 30 <212> PRT
 <213> Homo sapiens
 <400> 918
 Pro Leu Leu His Xaa Leu Met Tyr Ser Pro Met Leu Asp Thr Leu Phe
 1 5 10 15
 Leu Gln Phe Phe Ile Ser Ser Leu Xaa Leu Ser Gln Phe Ile Ile Cys
 20 25 30
 Ile Pro Phe Phe Leu Thr Glu Leu Ser Tyr Phe Arg Ser Gly Phe Leu
 35 40 45
 40 Arg Xaa Leu Val Gln Phe Leu Gly Leu Met Xaa Asn Ile Leu Pro Leu
 50 55 60
 Thr Phe Val Lys Asn Val Phe Leu Gly Xaa Gln Gln Gln Asn Thr Gly
 65 70 75 80
 His Phe Gln Xaa Trp His Ala Gly Leu Ser Phe Ala Gly Ile Phe Trp
 85 90 95
 45 Xaa Thr
 <210> 919
 50 <211> 98
 <212> PRT
 <213> Homo sapiens
 <400> 919
 55 Ile Ile Tyr Phe Thr Leu Phe His Pro Gly Gln Gln Ser Xaa Cys Gly
 1 5 10 15
 Met Leu Gly Asn Trp Val Arg Ser Arg Ser Thr Ser Ser Asp Arg Leu
 20 25 30
 Cys Leu Ser Arg Arg Ser Trp Phe Cys Leu Leu Arg Ser Cys Thr Ser
 35 40 45
 60 Cys Trp Ala Val Ala Trp Leu Cys Leu Ser Ser Cys Leu Ser Leu Cys
 50 55 60
 Phe Ile Xaa Ser Cys Thr Leu Pro Cys Trp Thr His Cys Ser Ser Asn
 343

65 Ser Ser Phe Leu Leu Xaa Asn Phe Pro Asn Leu Ser Tyr Val Tyr Leu
 70 85 90 95 80
 Phe Ser
 5
 <210> 920
 <211> 236
 <212> PRT
 10 <213> Homo sapiens
 <400> 920
 Gln Thr His Thr Asn Val His Met Gln Thr Ile Glu Arg Leu Val Lys
 1 5 10 15
 15 Glu Arg Asp Asp Leu Met Ser Ala Leu Val Ser Val Arg Ser Ser Leu
 20 25 30
 Ala Asp Thr Gln Gln Arg Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln
 35 40 45
 Val Leu Gln Ile Ser Glu Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu
 50 55 60
 20 Ile Gln Cys Asp Gln Leu Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg
 65 70 75 80
 Leu Glu Lys Glu Leu Ala Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys
 85 90 95
 25 Asp Met Met Lys Lys Glu Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser
 100 105 110
 Lys Met Leu Ile Leu Ser Gln Asn Ile Ala Gln Leu Glu Ala Gln Val
 115 120 125
 30 Glu Lys Val Thr Lys Glu Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu
 130 135 140
 Ile Gln Ser Gln Leu Ala Ser Arg Glu Met Asp Val Thr Lys Val Cys
 145 150 155 160
 Gly Glu Met Arg Tyr Gln Leu Asn Lys Thr Asn Met Glu Lys Asp Glu
 165 170 175
 35 Ala Glu Lys Glu His Arg Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu
 180 185 190
 Glu Ile Lys Asp Gln Glu Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu
 195 200 205
 Ser Lys His Thr Trp Asn Arg Ser Ser Xaa Arg His Pro Gly Gln Lys
 210 215 220
 40 Xaa Val Pro Glu Thr Asn Xaa Thr Ala Gly Arg Ile
 225 230 235
 <210> 921
 <211> 112
 <212> PRT
 <213> Homo sapiens
 <400> 921
 50 Met Tyr Leu Phe Pro Val Trp Xaa Arg Ala Val Gly Ser Asp Ser Pro
 1 5 10 15
 Ser Ser Xaa Val Ser Leu Arg His Xaa Phe Leu Ala Arg Val Pro Xaa
 20 25 30
 Ala Ala Pro Val Pro Ser Val Phe Ala Phe Ile Gln Phe Tyr Ser Gln
 35 40 45
 Phe Leu Tyr Phe Leu Ile Phe Asn Phe Lys Ile Pro Val Ser Phe Cys
 50 55 60
 Ser Glu Leu Ser Val Leu Leu Phe Cys Leu Ile Leu Leu His Val Gly
 65 70 75 80
 60 Phe Ile Gln Leu Ile Ala His Phe Ser Thr His Leu Cys Asp Ile His
 85 90 95
 Phe Pro Arg Ser Gln Leu Ala Leu Asn Phe Leu Gln Leu Ile Asn Ser
 100 105 110

<210> 922
 <211> 186
 <212> PRT
 5 <213> Homo sapiens

 <400> 922
 Leu Xaa Gly Asp Phe Glu Xaa Gln Xaa Xaa Xaa Pro Gln Gln Glu Lys
 1 5 10 15
 10 Val Ser Phe Xaa Gln Xaa Phe Xaa Lys Glu Glu Arg Pro Lys Pro Xaa
 20 25 30
 Arg Pro Arg Lys Xaa Ser Arg Ser Cys Xaa Arg Asn Xaa Ala Asn Gly
 35 40 45
 Ser Pro Ala Cys Gln Asn Xaa Lys Met Thr Ser Phe Xaa Cys Cys Xaa
 15 50 55 60
 Pro Arg Ile His Phe Cys Lys Val Lys Glu Arg Met Leu Tyr Ile Ser
 65 70 75 80
 Gln Glu Thr Gly Pro Xaa Ser Gln Lys Thr Arg Phe Glu Ile Ala Gln
 85 90 95
 20 Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys Xaa Gln
 100 105 110
 Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly Arg Val
 115 120 125
 His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp Lys His Ser Gln
 130 135 140
 25 Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln Asn Gln Leu
 145 150 155 160
 Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp Arg Leu Arg Thr
 165 170 175
 30 Gln Leu Pro Ser Met Pro Gln Ser Asp Cys
 180 185

<210> 923
 <211> 135
 35 <212> PRT
 <213> Homo sapiens

<400> 923
 Pro Leu Leu His Arg Leu Met Tyr Ser Pro Met Leu Asp Thr Leu Phe
 1 5 10 15
 Leu Gln Phe Phe Ile Ser Ser Leu Xaa Leu Ser Gln Phe Ile Ile Cys
 20 25 30
 Ile Pro Phe Phe Leu Thr Glu Leu Ser Tyr Phe Lys Ser Gly Phe Leu
 35 40 45
 45 Arg Xaa Trp Ser Ser Phe Leu Ala Asn Val Gln His Ser Phe Phe Asn
 50 55 60
 Phe Ala Lys Met Tyr Ser Gly Xaa Ala Thr Xaa Lys Thr Gly His Phe
 65 70 75 80
 Xaa Val Leu Ala Cys Trp Ala Ser Ile Cys Xaa Ile Ser Xaa Ala Thr
 85 90 95
 50 Pro Ala Xaa Phe Ser Trp Pro Xaa Arg Leu Gly Pro Phe Phe Leu Xaa
 100 105 110
 Lys Xaa Leu Xaa Lys Ala Asn Phe Phe Leu Leu Gly Xaa Xaa Xaa Leu
 115 120 125
 55 Xaa Leu Lys Ile Pro Xaa Gln
 130 135

<210> 924
 <211> 159
 60 <212> PRT
 <213> Homo sapiens

<400> 924

Ala Asp Arg Glu Gly Gly Cys Ala Ala Gly Arg Gly Arg Glu Leu Glu
 1 5 10 15
 Pro Glu Leu Glu Pro Gly Pro Gly Ser Ala Leu Glu Xaa Gly
 20 25 30
 5 Glu Glu Phe Glu Ile Val Asp Arg Ser Gln Leu Pro Gly Pro Gly Asp
 35 40 45
 Leu Arg Ser Ala Thr Arg Pro Arg Ala Ala Glu Gly Trp Ser Ala Pro
 50 55 60
 Ile Leu Thr Leu Ala Arg Arg Ala Thr Gly Asn Leu Ser Ala Ser Cys
 65 70 75 80
 10 Gly Ser Ala Leu Arg Ala Ala Ala Gly Leu Gly Gly Gly Asp Ser Gly
 85 90 95
 Asp Gly Thr Ala Arg Ala Ala Ser Lys Cys Gln Met Met Glu Glu Arg
 100 105 110
 15 Ala Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln
 115 120 125
 Ser Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu
 130 135 140
 20 Gln Gln Phe Phe Cys Ser Asp Gly Ala Leu Pro Gln Thr Trp Ala
 145 150 155

<210> 925

<211> 154

<212> PRT

25 <213> Homo sapiens

<400> 925

Gly Ser Ala Pro Ser Leu Gln Lys Asn Cys Cys Lys Gly Ala Trp Ser
 1 5 10 15
 30 Ala Ser Arg Leu Arg Pro Arg Leu Arg Ala Asp Trp Ser Asn Thr Leu
 20 25 30
 Met Leu Ser Phe Ile Met Cys Ile Arg Leu Ala Arg Ser Ser Ile Ile
 35 40 45
 Trp His Leu Glu Ala Ala Arg Ala Val Pro Ser Pro Leu Ser Pro Pro
 50 55 60
 35 Pro Ser Pro Ala Ala Ala Arg Ser Ala Leu Pro Gln Leu Ala Asp Arg
 65 70 75 80
 Phe Pro Val Ala Leu Arg Ala Arg Val Arg Met Gly Ala Asp Gln Pro
 85 90 95
 40 Ser Ala Ala Arg Gly Leu Val Ala Leu Arg Arg Ser Pro Gly Pro Gly
 100 105 110
 Ser Trp Leu Arg Ser Thr Ile Ser Asn Ser Ser Xaa Gly Ser Ser Ala
 115 120 125
 Asp Pro Gly Pro Gly Pro Gly Ser Ser Ser Gly Ser Ser Arg Pro
 130 135 140
 45 Arg Pro Ala Ala Gln Pro Pro Ser Arg Ser
 145 150

<210> 926

50 <211> 134

<212> PRT

<213> Homo sapiens

<400> 926

Leu Ser Ser Pro Cys Leu Arg Gln Cys Ser Ile Thr Thr Lys Glu Leu
 1 5 10 15
 Leu Gln Gly Gly Met Val Arg Ile Gln Ala Ala Ala Gln Ala Gln Ser
 20 25 30
 Arg Leu Glu Gln His Leu Asp Ala Glu Phe His His Val His Gln Val
 35 40 45
 60 Gly Thr Leu Leu His His Leu Ala Leu Arg Ser Cys Ala Arg Arg Ala
 50 55 60
 Val Pro Ala Val Pro Ala Ala Gln Pro Arg Gly Arg Ala Gln Arg Ala

	65	70	75	80
	Pro Ala Ala Arg Arg Gln Val Pro Gly Gly Pro Ala Cys Gln Gly Gln			
		85	90	95
5	Asp Gly Arg Arg Pro Ala Leu Gly Arg Pro Arg Pro Arg Cys Ala Pro			
		100	105	110
	Gln Val Ala Trp Ala Gly Gln Leu Ala Ser Val His Asp Leu Lys Leu			
		115	120	125
	Phe Ser Xaa Leu Lys Arg			
	130			
10	<210>	927		
	<211>	424		
	<212>	PRT		
	<213>	Homo sapiens		
15	<400>	927		
	Ile Arg Tyr Leu Glu Val Leu Cys Thr Lys Lys Val Ser Glu Lys Met			
	1	5	10	15
20	Glu Phe Phe Asn Ile Ser Val Asp Asn Thr Cys Ser Leu Phe Arg Gly			
		20	25	30
	Leu Gln Lys Glu Glu Val Val Leu Leu Thr His Gly Asp Ser Val Asp			
		35	40	45
	Lys Val Ala Asp Gly Phe Lys Val Val Ala Arg Ser Gly Asn Ile Val			
		50	55	60
25	Ala Gly Ile Ala Asn Glu Ser Lys Lys Leu Tyr Gly Ala Gln Phe His			
		65	70	75
	Pro Glu Val Gly Leu Thr Glu Asn Gly Lys Val Ile Leu Lys Asn Phe			
		85	90	95
30	Leu Tyr Asp Ile Thr Gly Cys Ser Gly Thr Phe Thr Val Gln Asn Arg			
		100	105	110
	Glu Leu Glu Cys Ile Arg Glu Ile Lys Glu Arg Val Gly Thr Ser Lys			
		115	120	125
	Val Leu Val Leu Leu Ser Gly Gly Val Asp Ser Thr Val Cys Thr Ala			
		130	135	140
35	Leu Leu Asn Arg Ala Leu Asn Gln Glu Gln Val Ile Ala Val His Ile			
		145	150	155
	Asp Asn Gly Phe Met Arg Lys Arg Glu Ser Gln Ser Val Glu Glu Ala			
		165	170	175
40	Leu Lys Lys Leu Gly Ile Gln Val Lys Val Ile Asn Ala Ala His Ser			
		180	185	190
	Phe Tyr Asn Gly Thr Thr Thr Leu Pro Ile Ser Asp Glu Asp Arg Thr			
		195	200	205
	Pro Arg Lys Arg Ile Ser Lys Thr Leu Asn Met Thr Thr Ser Pro Glu			
		210	215	220
45	Glu Lys Arg Lys Ile Ile Gly Asp Thr Phe Val Lys Ile Ala Asn Glu			
		225	230	235
	Val Ile Gly Glu Met Asn Leu Lys Pro Glu Glu Val Phe Leu Ala Gln			
		245	250	255
	Gly Thr Leu Arg Pro Asp Leu Ile Glu Ser Ala Ser Leu Val Ala Ser			
		260	265	270
50	Gly Lys Ala Glu Leu Ile Lys Thr His His Asn Asp Thr Glu Leu Ile			
		275	280	285
	Lys Lys Leu Arg Glu Glu Gly Lys Val Ile Glu Pro Leu Lys Asp Phe			
		290	295	300
55	His Lys Asp Glu Val Arg Ile Leu Gly Arg Glu Leu Gly Leu Pro Glu			
		305	310	315
	Glu Leu Val Ser Arg His Pro Phe Pro Gly Pro Gly Leu Ala Ile Arg			
		325	330	335
60	Val Ile Cys Ala Glu Glu Pro Tyr Ile Cys Lys Asp Phe Pro Glu Thr			
		340	345	350
	Asn Asn Ile Leu Lys Ile Val Ala Asp Phe Ser Ala Ser Val Lys Lys			
		355	360	365
	Pro His Thr Leu Leu Gln Arg Val Lys Ala Cys Thr Glu Glu Asp			

370 375 380
 Gln Glu Lys Leu Met Gln Ile Thr Ser Leu His Ser Leu Asn Ala Phe
 385 390 395 400
 Leu Leu Pro Ile Lys Thr Val Xaa Val Gln Gly Asp Cys Arg Ser Tyr
 5 405 410 415
 Ser Tyr Arg Val Trp Asn Xaa Gln
 420

 <210> 928
 10 <211> 191
 <212> PRT
 <213> Homo sapiens

 <400> 928
 15 Pro Arg Ser Ala Ala Val Ala Pro Phe Gly Ala Phe Leu Ala Ala Gly
 1 5 10 15
 Ser Ser Pro Leu Pro Ala Ala Pro Arg Pro Gly Leu Leu Leu Asn Leu
 20 20 25 30
 Ser Pro Arg Arg Arg Pro Phe Arg His Pro Pro Ala Pro Ser Arg Thr
 20 35 40 45
 Val Ala Val Thr Ala Ala Ala Pro Ala Leu Ala Pro Met Ala Leu Cys
 50 55 60
 Asn Gly Asp Ser Lys Leu Glu Asn Ala Gly Gly Asp Leu Lys Asp Gly
 65 70 75 80
 25 His His His Tyr Glu Gly Ala Val Val Ile Leu Asp Ala Gly Ala Gln
 85 90 95
 Tyr Gly Lys Val Ile Asp Arg Arg Val Arg Glu Leu Phe Val Gln Ser
 100 105 110
 Glu Ile Phe Pro Leu Glu Thr Pro Ala Phe Ala Ile Lys Glu Gln Gly
 115 120 125
 30 Phe Arg Ala Ile Ile Ile Ser Gly Gly Pro Asn Ser Val Tyr Ala Glu
 130 135 140
 Asp Ala Pro Trp Phe Asp Pro Thr Ile Phe Thr Ile Gly Lys Pro Val
 145 150 155 160
 35 Leu Gly Ile Cys Tyr Gly Met Gln Met Met Asn Lys Val Phe Gly Gly
 165 170 175
 Thr Val His Lys Lys Ser Val Arg Lys Asp Gly Val Phe Gln His
 180 185 190

 40 <210> 929
 <211> 203
 <212> PRT
 <213> Homo sapiens

 45 <400> 929
 Arg Pro Leu Asn Asn Glu His Val Leu Ser Thr Leu Met Leu Lys Asn
 1 5 10 15
 Ser Ile Phe Ser Asp Thr Phe Phe Val His Ser Thr Ser Lys Tyr Leu
 20 25 30
 50 Ile His His Leu His Thr Ile Ala Asn Ser Lys Asn Arg Leu Ala Asn
 35 40 45
 Ser Glu Tyr Cys Trp Ile Lys Pro Gly Ser Ile Phe Ser Ile His Arg
 50 55 60
 Ile Arg Ser Ser Arg Asp Asp Asn Ser Thr Glu Ser Leu Phe Leu Tyr
 55 65 70 75 80
 Ser Lys Cys Trp Cys Phe Gln Gly Glu Asn Phe Arg Leu His Glu Gln
 85 90 95
 Phe Pro His Ser Ser Val Tyr Asp Phe Pro Val Leu Ser Thr Ser Ile
 100 105 110
 60 Gln Asn Asp Asn Ser Ser Phe Ile Val Val Val Ala Ile Leu Lys Val
 115 120 125
 Ser Ser Ser Ile Leu Gln Leu Gly Val Ser Val Ala Gln Ser His Arg
 130 135 140

Gly Gln Gly Arg Ser Arg Gly Gly Asp Gly Asp Ser Thr Arg Arg Gly
 145 150 155 160
 Gly Arg Val Pro Glu Gly Ser Ala Pro Arg Ala Glu Val Glu Lys Glu
 165 170 175
 5 Ala Trp Ser Arg Ser Ser Arg Gln Arg Arg Gly Ala Ser Arg Gln Lys
 180 185 190
 Ser Ala Glu Trp Ser Asn Ser Ser Gly Ala Arg
 195 200

10 <210> 930
 <211> 236
 <212> PRT
 <213> Homo sapiens

15 <400> 930
 Pro Arg Ser Ala Ala Val Ala Pro Phe Gly Ala Phe Leu Ala Ala Gly
 1 5 10 15
 Ser Ser Pro Leu Pro Ala Ala Pro Arg Pro Gly Leu Leu Leu Asn Leu
 20 25 30
 20 Ser Pro Arg Arg Arg Pro Phe Arg His Pro Pro Ala Pro Ser Arg Thr
 35 40 45
 Val Ala Val Thr Ala Ala Ala Pro Ala Leu Ala Pro Met Ala Leu Cys
 50 55 60
 Asn Gly Asp Ser Lys Leu Glu Asn Ala Gly Gly Asp Leu Lys Asp Gly
 65 70 75 80
 25 His His His Tyr Glu Gly Ala Val Val Ile Leu Asp Ala Gly Ala Gln
 85 90 95
 Tyr Gly Lys Val Ile Asp Arg Arg Val Arg Glu Leu Phe Val Gln Ser
 100 105 110
 30 Glu Ile Phe Pro Leu Glu Thr Pro Ala Phe Ala Ile Lys Glu Gln Gly
 115 120 125
 Phe Arg Ala Ile Ile Ile Ser Gly Gly Pro Asn Ser Val Tyr Ala Glu
 130 135 140
 Asp Ala Pro Trp Phe Asp Pro Thr Ile Phe Thr Ile Gly Lys Pro Val
 145 150 155 160
 35 Leu Gly Ile Cys Tyr Gly Met Xaa Met Met Asn Xaa Val Phe Gly Gly
 165 170 175
 Thr Val His Lys Lys Lys Cys Gln Lys Arg Trp Ser Phe Ser Thr Leu
 180 185 190
 40 Val Xaa Ile Ile His Val His Tyr Ser Xaa Ala Phe Xaa Lys Glu Lys
 195 200 205
 Leu Val Leu Ala Tyr Thr Trp Glu Asn Ser Val Lys Gln Ser Asn Leu
 210 215 220
 Met Glu Xaa Lys Val Gly Ala Pro Phe Trp Xaa Lys
 225 230 235

<210> 931
 <211> 189
 <212> PRT
 50 <213> Homo sapiens

<400> 931
 Lys Thr Pro Ser Phe Leu Thr Leu Phe Phe Val His Ser Thr Ser Lys
 1 5 10 15
 55 Tyr Xaa Ile His His Xaa His Thr Ile Ala Asn Ser Lys Asn Arg Leu
 20 25 30
 Ala Asn Ser Glu Tyr Cys Trp Ile Lys Pro Gly Ser Ile Phe Ser Ile
 35 40 45
 His Arg Ile Arg Ser Ser Arg Asp Asp Asn Ser Thr Glu Ser Leu Phe
 50 55 60
 60 Leu Tyr Ser Lys Cys Trp Cys Phe Gln Gly Glu Asn Phe Arg Leu His
 65 70 75 80
 Glu Gln Phe Pro His Ser Ser Val Tyr Asp Phe Pro Val Leu Ser Thr

85 90 95
 Ser Ile Gln Asn Asp Asn Ser Ser Phe Ile Val Val Val Ala Ile Leu
 100 105 110
 Lys Val Ser Ser Ser Ile Leu Gln Leu Gly Val Ser Val Ala Gln Ser
 115 120 125
 5 His Arg Gly Gln Gly Arg Ser Arg Gly Gly Asp Gly Asp Ser Thr Arg
 130 135 140
 Arg Gly Gly Arg Val Pro Glu Gly Ser Ala Pro Arg Ala Glu Val Glu
 145 150 155 160
 10 Lys Glu Ala Trp Ser Arg Ser Ser Arg Gln Arg Arg Gly Ala Ser Arg
 165 170 175
 Gln Lys Ser Ala Glu Trp Ser Asn Ser Ser Gly Ala Arg
 180 185
 15 <210> 932
 <211> 175
 <212> PRT
 <213> Homo sapiens
 20 <400> 932
 Val Cys Arg Gly Leu Trp Phe Pro Gln Leu Gly Gly Xaa Xaa Ser Ser
 1 5 10 15
 Lys Asn Asp Pro Xaa Trp Glu Xaa Leu Xaa Phe Xaa Xaa Arg Leu Xaa
 20 25 30
 25 Pro Gly Met Cys His Asn Val Asn Xaa Val Val Tyr Ile Phe Gly Xaa
 35 40 45
 Pro Val Lys Xaa Pro Xaa Thr Xaa Val Thr Pro Pro Phe Leu Thr Thr
 50 55 60
 Gly Xaa Val Ser Thr Leu Arg Gln Xaa Asp Phe Xaa Ala His Asn Ile
 65 70 75 80
 30 Phe Arg Glu Phe Gly Tyr Xaa Gly Lys Ile Xaa Gln Xaa Pro Xaa Ile
 85 90 95
 Leu Xaa Pro Leu His Phe Asp Xaa Xaa Xaa Leu Gln Xaa Gln Pro Xaa
 100 105 110
 35 Cys Xaa Arg Phe Xaa Val Ile Arg Xaa Phe Ile Xaa Xaa Asp Phe Met
 115 120 125
 Thr Xaa Xaa Pro Ala Xaa Pro Gly Asn Glu Ile Pro Val Lys Xaa Val
 130 135 140
 Leu Xaa Met Val Xaa Xaa Ile Xaa Xaa Ile Pro Xaa Ile Xaa Arg Ile
 145 150 155 160
 40 Met Tyr Asp Leu Thr Ser Lys Pro Pro Gly Thr Xaa Glu Xaa Xaa
 165 170 175
 45 <210> 933
 <211> 202
 <212> PRT
 <213> Homo sapiens
 50 <400> 933
 Gly Asn Ile Val Ala Gly Ile Ala Asn Glu Ser Lys Lys Leu Tyr Gly
 1 5 10 15
 Ala Gln Phe His Pro Glu Val Gly Leu Thr Glu Asn Gly Lys Val Ile
 20 25 30
 Leu Lys Asn Phe Leu Tyr Asp Ile Ala Gly Cys Ser Gly Thr Phe Thr
 35 40 45
 55 Val Gln Asn Arg Glu Leu Glu Cys Ile Arg Glu Ile Lys Glu Arg Val
 50 55 60
 Gly Thr Ser Lys Val Leu Val Leu Leu Ser Gly Gly Val Asp Ser Thr
 65 70 75 80
 60 Val Cys Thr Ala Leu Leu Asn Arg Ala Leu Asn Gln Glu Gln Val Ile
 85 90 95
 Ala Val His Ile Asp Asn Gly Phe Met Arg Lys Arg Glu Ser Gln Ser
 100 105 110

Val Glu Glu Ala Leu Lys Lys Leu Gly Ile Gln Val Lys Val Ile Asn
 115 120 125
 Ala Ala His Ser Phe Tyr Asn Gly Thr Thr Thr Leu Pro Ile Ser Asp
 130 135 140
 5 Glu Asp Arg Thr Pro Arg Lys Arg Ile Ser Lys Thr Leu Asn Met Thr
 145 150 155 160
 Thr Ser Pro Glu Glu Lys Arg Lys Ile Ile Gly Asp Thr Phe Val Lys
 165 170 175
 10 Ile Ala Asn Glu Val Ile Gly Glu Met Asn Leu Lys Pro Xaa Glu Val
 180 185 190
 Phe Leu Ala Gln Gly Leu Tyr Xaa Leu Ile
 195 200

 <210> 934
 15 <211> 152
 <212> PRT
 <213> Homo sapiens

 <400> 934
 20 Pro Ala Xaa Tyr Phe Xaa Lys Lys Met Val Gly Phe Lys Lys Xaa Pro
 1 5 10 15
 Xaa Pro Lys Lys Lys Val Phe Ser Ser Thr Tyr Tyr Phe Xaa Ile Ala
 20 25 30
 Gln Ala Gln Xaa Pro Gly Lys Trp Lys Ala Trp Lys Thr Asn Xaa Xaa
 25 35 40 45
 Trp Lys Val Gln Val Xaa Trp Pro Lys Asn Ser His Phe Ile Phe Asn
 50 55 60
 Glu Ile Phe Pro Xaa Val Leu Ile Thr Phe Pro Xaa Xaa Ser Gln Leu
 65 70 75 80
 30 Phe Asp Glu Leu Xaa Val Ile Val Met Gly Phe Asp Glu Ser Ser Phe
 85 90 95
 Ala Thr Cys Asn Lys Xaa Trp His Phe Gln Leu Asp Gln Xaa Val Lys
 100 105 110
 Thr Leu Gly Lys Glu Asn Leu Xaa Trp Phe Gln Val His Phe Ser Asn
 35 115 120 125
 Tyr Phe Ile Gly Asn Leu Asn Lys Ser Ile Pro Asn Asp Phe Ser Phe
 130 135 140
 Leu Phe Arg Thr Cys Gly His Ile
 145 150

 40 <210> 935
 <211> 176
 <212> PRT
 <213> Homo sapiens

 45 <400> 935
 Val Cys Arg Val Thr Val Val Pro Thr Val Thr Cys Val Glu Ser Pro
 1 5 10 15
 Val Lys Met Asn Leu Thr Gly Asn His Phe Ile Phe Leu Ala Arg Leu
 20 25 30
 Ile Pro Arg Met Cys His Asn Val Asn Arg Val Val Tyr Ile Phe Gly
 35 40 45
 Pro Pro Val Lys Glu Pro Pro Thr Asp Val Thr Pro Thr Phe Leu Thr
 50 55 60
 55 Thr Gly Val Leu Ser Thr Leu Arg Gln Ala Asp Phe Glu Ala His Asn
 65 70 75 80
 Ile Leu Arg Glu Ser Gly Tyr Ala Gly Lys Ile Ser Gln Met Pro Val
 85 90 95
 Ile Leu Thr Pro Leu His Phe Asp Arg Asp Pro Leu Gln Lys Gln Pro
 60 100 105 110
 Ser Cys Gln Arg Ser Val Val Ile Arg Thr Phe Ile Thr Ser Asp Phe
 115 120 125
 Met Thr Gly Ile Pro Ala Thr Pro Gly Asn Glu Ile Pro Val Glu Val

130 135 140
 Val Leu Lys Met Val Thr Glu Ile Lys Lys Ile Pro Gly Ile Ser Arg
 145 150 155 160
 Ile Met Tyr Asp Leu Thr Ser Lys Pro Pro Gly Thr Thr Glu Trp Glu
 5 165 170 175

 <210> 936
 <211> 218
 <212> PRT
 10 <213> Homo sapiens

 <400> 936
 Arg Thr Pro Arg Lys Arg Ile Ser Lys Thr Leu Asn Met Thr Thr Ser
 1 5 10 15
 15 Pro Glu Glu Lys Arg Lys Ile Ile Gly Asp Thr Phe Val Lys Ile Ala
 20 25 30
 Asn Glu Val Ile Gly Glu Met Asn Leu Lys Pro Glu Glu Val Phe Leu
 35 40 45
 Ala Gln Gly Thr Leu Arg Pro Asp Leu Ile Glu Ser Ala Ser Leu Val
 20 50 55 60
 Ala Ser Gly Lys Ala Glu Leu Ile Lys Thr His His Asn Asp Thr Glu
 65 70 75 80
 Leu Ile Arg Lys Leu Arg Glu Glu Gly Lys Val Ile Glu Pro Leu Lys
 85 90 95
 25 Asp Phe His Lys Asp Glu Val Arg Ile Leu Gly Arg Glu Leu Gly Leu
 100 105 110
 Pro Glu Glu Leu Val Ser Arg His Pro Phe Pro Gly Pro Gly Leu Ala
 115 120 125
 Ile Arg Val Ile Cys Ala Glu Pro Tyr Ile Cys Lys Asp Phe Pro
 30 130 135 140
 Glu Thr Asn Asn Ile Leu Lys Ile Val Ala Asp Phe Ser Ala Ser Val
 145 150 155 160
 Lys Lys Pro His Thr Leu Leu Gln Arg Val Lys Ala Cys Thr Thr Glu
 165 170 175
 35 Glu Asp Gln Glu Lys Leu Met Gln Ile Thr Ser Leu His Ser Leu Asn
 180 185 190
 Ala Phe Leu Leu Pro Ile Lys Thr Val Xaa Val Gln Gly Asp Cys Arg
 195 200 205
 Ser Tyr Ser Tyr Arg Val Trp Asn Xaa Gln
 40 210 215

 <210> 937
 <211> 246
 <212> PRT
 45 <213> Homo sapiens

 <400> 937
 Ala Ala Ala Pro Ala Leu Ala Pro Met Ala Leu Cys Asn Gly Asp Ser
 1 5 10 15
 50 Lys Leu Glu Asn Ala Gly Gly Asp Leu Lys Asp Gly His His His Tyr
 20 25 30
 Glu Gly Ala Val Val Ile Leu Asp Ala Gly Ala Gln Tyr Gly Lys Val
 35 40 45
 Ile Asp Arg Arg Val Arg Glu Leu Phe Val Gln Ser Glu Ile Phe Pro
 50 55 60
 Leu Glu Thr Pro Ala Phe Ala Ile Lys Glu Gln Gly Phe Arg Ala Ile
 65 70 75 80
 Ile Ile Ser Gly Gly Pro Asn Ser Val Tyr Ala Glu Asp Ala Pro Trp
 85 90 95
 60 Phe Asp Pro Ala Ile Phe Thr Ile Gly Lys Pro Val Leu Gly Ile Cys
 100 105 110
 Tyr Gly Met Gln Met Met Asn Lys Val Phe Gly Gly Thr Val His Lys
 115 120 125

Lys Ser Val Arg Glu Asp Gly Val Phe Asn Ile Ser Val Asp Asn Thr
 130 135 140
 Cys Ser Leu Phe Arg Gly Leu Gln Lys Glu Glu Val Val Leu Leu Thr
 145 150 155 160
 5 His Gly Asp Ser Val Asp Lys Val Ala Asp Gly Phe Lys Val Val Ala
 165 170 175
 Arg Ser Gly Asn Ile Val Ala Gly Ile Ala Asn Glu Ser Lys Lys Leu
 180 185 190
 Tyr Gly Ala Gln Phe His Pro Glu Val Gly Leu Thr Glu Asn Gly Lys
 195 200 205
 10 Val Ile Leu Lys Asn Phe Leu Tyr Asp Ile Thr Trp Met Gln Trp Asn
 210 215 220
 Leu His Arg Ala Xaa Thr Glu Lys Leu Glu Cys Xaa Xaa Glu Ile Lys
 225 230 235 240
 15 Arg Glu Ser Xaa Ala Arg
 245

<210> 938
 <211> 145
 20 <212> PRT
 <213> Homo sapiens

<400> 938
 Thr Cys Ile Ile His Thr Asn Val Glu Asn Ser Ile Phe Ser Asp Thr
 1 5 10 15
 25 Phe Phe Val His Ser Thr Ser Lys Tyr Leu Ile His His Leu His Thr
 20 25 30
 Ile Ala Asn Ser Lys Asn Arg Leu Ala Asn Ser Glu Tyr Cys Trp Ile
 35 40 45
 30 Lys Pro Gly Ser Ile Phe Ser Ile His Arg Ile Arg Ser Ser Arg Asp
 50 55 60
 Asp Asn Ser Thr Glu Ser Leu Phe Leu Tyr Ser Lys Cys Trp Cys Phe
 65 70 75 80
 35 Gln Gly Glu Asn Phe Arg Leu His Glu Gln Phe Pro His Ser Ser Val
 85 90 95
 Tyr Asp Phe Pro Val Leu Ser Thr Ser Ile Gln Asn Asp Asn Ser Ser
 100 105 110
 Phe Ile Val Val Val Ala Ile Leu Lys Val Ser Ser Ser Ile Leu Gln
 115 120 125
 40 Leu Gly Val Ser Val Ala Gln Ser His Arg Gly Gln Gly Arg Ser Arg
 130 135 140
 Gly
 145

45 <210> 939
 <211> 220
 <212> PRT
 <213> Homo sapiens

50 <400> 939
 Thr Met Glu Ala Lys Asp Gln Lys Lys His Arg Lys Lys Asn Ser Gly
 1 5 10 15
 Pro Lys Ala Ala Lys Lys Lys Lys Arg Leu Leu Gln Asp Leu Gln Leu
 20 25 30
 55 Gly Asp Glu Glu Asp Ala Arg Lys Arg Asn Pro Lys Ala Phe Ala Val
 35 40 45
 Gln Ser Ala Val Arg Met Ala Arg Ser Phe His Arg Thr Gln Asp Leu
 50 55 60
 Lys Thr Lys Lys His His Ile Pro Val Val Asp Arg Thr Pro Leu Glu
 65 70 75 80
 60 Pro Pro Pro Ile Val Val Val Val Met Gly Pro Pro Lys Val Gly Lys
 85 90 95
 Ser Thr Leu Ile Gln Cys Leu Ile Arg Asn Phe Thr Arg Gln Lys Leu

100 105 110
 Thr Glu Ile Arg Gly Pro Val Thr Ile Val Ser Gly Lys Lys Arg Arg
 115 120 125
 Leu Thr Ile Ile Glu Cys Gly Cys Asp Ile Asn Met Met Ile Asp Leu
 130 135 140
 Ala Lys Val Ala Asp Leu Val Leu Met Leu Ile Asp Ala Ser Phe Gly
 145 150 155 160
 Phe Glu Met Glu Thr Phe Glu Phe Leu Asn Ile Cys Gln Val His Gly
 165 170 175
 10 Phe Pro Lys Ile Met Gly Val Leu Thr His Leu Asp Phe Phe Lys His
 180 185 190
 Asn Lys Pro Thr Gly Gly Arg Gln Arg Ser Arg Leu Lys His Arg Phe
 195 200 205
 Trp Thr Xaa Lys Phe Thr Pro Gly Ala Gln Ala Val
 15 210 215 220

<210> 940

<211> 156

<212> PRT

20 <213> Homo sapiens

<400> 940

Asn Cys Leu Pro Pro Gln Ile Gln Gly Gln Ser Leu Gln Ser Lys Gly
 1 5 10 15
 25 Ser Leu Gln Leu Ala Leu Ser Pro Leu Gln Thr Gly Leu Leu Val Ser
 20 25 30
 Ser Phe Leu Leu Pro Leu Asn Ser Glu Glu Leu Leu Pro Glu Val Leu
 35 40 45
 Leu Pro Leu Gln Leu Leu Leu Leu Leu Leu Gly Ser Glu Val
 50 55 60
 30 Leu Phe Ile Val Gln Val Pro Leu Leu Leu Gly Leu Leu His Leu Leu
 65 70 75 80
 Thr Met His Arg Thr Gln Ser Ile Gln Gln Cys Lys Asp Leu Ser Phe
 85 90 95
 35 Met Arg Leu Ala Tyr Asp Gly Arg Ser Pro Pro Val Leu Trp His Leu
 100 105 110
 Ala Cys Leu Cys Leu Gly Leu Gly Leu Val Leu Lys Trp Gln Gly Leu
 115 120 125
 Leu Gln Xaa Phe Trp Asn Val Gln Xaa Ile Lys Met Phe Leu Leu Pro
 130 135 140
 40 Gln Asp Gly Leu Tyr Xaa Lys Val Leu Gly Xaa Leu
 145 150 155

<210> 941

45 <211> 132

<212> PRT

<213> Homo sapiens

<400> 941

50 Gly Gln Lys Glu Xaa Phe Leu Ile Ser Xaa Ala Xaa Ser Gln Asn Xaa
 1 5 10 15
 Leu Pro Xaa Gly Xaa Ser Xaa Phe Lys Xaa Gln Ala Gln Ala Pro Asn
 20 25 30
 Gln Lys Ala Gly Lys Val Pro Lys Gly Gln Ala Glu Pro Gly Xaa His
 35 40 45
 55 Thr Arg Ala Phe Met Lys Xaa Arg Ser Leu Ala Leu Leu Asp Ala Leu
 50 55 60
 Ser Thr Val His Ser Gln Lys Met Lys Lys Ala Lys Glu Gln Arg Xaa
 65 70 75 80
 60 Leu Xaa Asn Lys Glu Pro Phe Arg Ala Lys Gln Lys Glu Glu Glu Glu
 85 90 95
 Lys Leu Lys Arg Gln Lys Asp Leu Arg Lys Lys Leu Phe Arg Ile Gln
 100 105 110

Gly Gln Lys Glu Arg Arg Asn Gln Lys Ser Ser Leu Lys Gly Ala Glu
 115 120 125
 Gly Gln Xaa Gln
 130

5

<210> 942
 <211> 142
 <212> PRT
 <213> Homo sapiens

10

<400> 942
 Asn Cys Leu Pro Pro Xaa Ile Gln Gly Gln Ser Leu Gln Ser Lys Gly
 1 5 10 15
 Ser Leu Xaa Leu Ala Leu Ser Pro Leu Gln Thr Gly Leu Leu Val Ser
 20 25 30
 Ser Phe Leu Leu Pro Leu Asn Ser Glu Glu Leu Leu Pro Glu Val Leu
 35 40 45
 Leu Pro Leu Gln Leu Leu Leu Leu Leu Leu Leu Gly Ser Glu Gly
 50 55 60
 Leu Phe Ile Xaa Gln Xaa Pro Leu Leu Leu Gly Leu Leu His Leu Leu
 65 70 75 80
 Thr Met His Arg Thr Gln Ser Ile Gln Gln Cys Lys Gly Ser Xaa Phe
 85 90 95
 His Glu Gly Ser Arg Met Xaa Ala Gly Leu Arg Leu Ser Phe Trp His
 100 105 110
 Leu Ala Cys Leu Leu Val Trp Gly Leu Gly Leu Xaa Leu Lys Xaa Gly
 115 120 125
 Xaa Ala Xaa Trp Gln Xaa Val Leu Gly Xaa Gly Xaa Gly Asn
 130 135 140

20

25

30

<210> 943
 <211> 127
 <212> PRT
 <213> Homo sapiens

35

<400> 943
 Ala Lys Arg Asn Leu Phe Asn Ser Leu Xaa His Ser Gln Xaa Xaa Cys
 1 5 10 15
 Xaa Arg Xaa Xaa His Xaa Arg Pro Ser Pro Ser Pro Ser Lys Gly Arg
 20 25 30
 Gln Gly Ala Lys Asp Arg Arg Arg Pro Ala Val Ile Arg Glu Pro His
 35 40 45
 Glu Arg Lys Ile Leu Ala Leu Leu Asp Ala Leu Ser Thr Val His Ser
 50 55 60
 Gln Lys Met Lys Lys Ala Lys Glu Gln Arg His Leu His Asn Lys Glu
 65 70 75 80
 His Phe Arg Ala Lys Gln Lys Glu Glu Glu Glu Lys Leu Lys Arg Gln
 85 90 95
 Lys Asp Leu Arg Lys Lys Leu Phe Arg Ile Gln Gly Gln Lys Glu Arg
 100 105 110
 Arg Asn Gln Lys Ser Ser Leu Lys Gly Ala Glu Gly Gln Leu Gln
 115 120 125

40

45

50

55

<210> 944
 <211> 159
 <212> PRT
 <213> Homo sapiens

60

<400> 944
 Asn Cys Leu Pro Pro Gln Ile Gln Gly Gln Ser Leu Gln Ser Lys Gly
 1 5 10 15
 Ser Leu Gln Leu Ala Leu Ser Pro Leu Gln Thr Gly Leu Leu Val Ser
 20 25 30

Ser Phe Leu Leu Pro Leu Asn Ser Glu Glu Leu Leu Pro Glu Val Leu
 35 40 45
 Leu Pro Leu Gln Leu Leu Leu Leu Leu Leu Gly Ser Glu Val
 50 55 60
 5 Leu Phe Ile Val Gln Val Pro Leu Leu Leu Gly Leu Leu His Leu Leu
 65 70 75 80
 Thr Met His Arg Thr Gln Ser Ile Gln Gln Cys Lys Asp Leu Ser Phe
 85 90 95
 Met Arg Leu Ala Tyr Asp Gly Arg Ser Pro Pro Val Phe Gly Thr Leu
 10 100 105 110
 Pro Ala Phe Ala Trp Ala Trp Ala Trp Ser Xaa Met Xaa Xaa Pro Xaa
 115 120 125
 Ala Xaa Xaa Leu Gly Met Xaa Lys Gly Ile Lys Lys Val Ser Phe Gly
 130 135 140
 15 Leu Arg Ile Gly Leu Phe Lys Xaa Val Leu Gly Arg Leu Leu Xaa
 145 150 155

<210> 945

<211> 250

20 <212> PRT

<213> Homo sapiens

<400> 945

Ile Asn Tyr Val Leu Val Val Tyr Gly Leu Ala Ile Ser Leu Leu Gly
 25 1 5 10 15
 Ile Gly Gln Pro Glu Glu Leu Ser Glu Ala Glu Asn Gln Phe Lys Arg
 20 25 30
 Ile Ile Glu His Tyr Pro Ser Glu Gly Leu Asp Cys Leu Ala Tyr Cys
 35 40 45
 30 Gly Ile Gly Lys Val Tyr Leu Lys Lys Asn Arg Phe Leu Glu Ala Leu
 50 55 60
 Asn His Phe Glu Lys Ala Arg Thr Leu Ile Tyr Arg Leu Pro Gly Val
 65 70 75 80
 Leu Thr Trp Pro Thr Ser Asn Val Ile Ile Glu Glu Ser Gln Pro Gln
 85 90 95
 35 Lys Ile Lys Met Leu Leu Glu Lys Phe Val Glu Glu Cys Lys Phe Pro
 100 105 110
 Pro Val Pro Asp Ala Ile Cys Cys Tyr Gln Lys Cys His Gly Tyr Ser
 115 120 125
 40 Lys Ile Gln Ile Tyr Ile Thr Asp Pro Asp Phe Lys Gly Phe Ile Arg
 130 135 140
 Ile Ser Cys Cys Gln Tyr Cys Lys Ile Glu Phe His Met Asn Cys Trp
 145 150 155 160
 Lys Lys Leu Lys Thr Thr Phe Asn Asp Lys Ile Asp Lys Asp Phe
 45 165 170 175
 Leu Gln Gly Ile Cys Leu Thr Pro Asp Cys Glu Xaa Val Ile Ser Lys
 180 185 190
 Ile Ile Ile Phe Ser Ser Gly Gly Glu Val Lys Cys Glu Phe Glu His
 195 200 205
 50 Lys Val Ile Lys Glu Lys Val Xaa Ser Arg Pro Ile Leu Lys Gln Lys
 210 215 220
 Cys Ser Ser Leu Xaa Lys Leu Arg Leu Glu Glu Asp Lys Lys Leu Glu
 225 230 235 240
 Glu Lys Gly Xaa Gln Lys Lys Glu Pro Lys
 55 245 250

<210> 946

<211> 128

<212> PRT

60 <213> Homo sapiens

<400> 946

Arg Ala Ser Asn Ser Ser Thr Ser Cys Arg Arg Trp Ser Gly Thr Ala

1 5 10 15
 Asn Gly Pro Ala Xaa Ser Glu Phe Arg Leu Leu Trp Ser Ser Leu Glu
 20 25 30
 Val Met Ile Ser Leu Phe Glu Val Thr Glu Val Val Pro Asp Pro Thr
 35 40 45
 5 Asn Ile Gly Phe Glu Ser Phe Gly Phe Phe Phe Leu Leu Xaa Phe
 50 55 60
 Thr Leu Val Glu Leu Asn Gly Ala Ser Pro Leu Ser Cys Phe Leu Asn
 65 70 75 80
 10 Thr Val Gln Ala Gly Val His Tyr Ile Lys Arg Ile His Leu Lys His
 85 90 95
 Tyr Ala Met Leu Gly Asn Leu Gly Phe Trp Gly Leu Leu Xaa Xaa Xaa
 100 105 110
 Ile Leu Asn Lys Pro Gly Leu Ser Phe Lys Xaa Lys Pro Gly Leu Pro
 115 120 125
 15
 <210> 947
 <211> 127
 <212> PRT
 20 <213> Homo sapiens
 <400> 947
 Ala Val Met Gln Pro Ser Ser Val Gln Tyr Ser Cys Gln Ser Gln Gln
 1 5 10 15
 25 Asn Glu Gly Ile Pro Arg Glu Lys Val Leu Asn Leu Leu Leu Phe Leu
 20 25 30
 Val Ser Val Glu Phe Leu Leu Gly Lys Thr His Ile Leu Gln Arg Thr
 35 40 45
 Ser Cys Tyr Ser Cys Pro Arg Asp His Val Pro Pro Lys Thr Glu Arg
 50 55 60
 30 Ser Asn His Ile Glu Leu Asn Ile Phe Val Leu Gly Ser Cys Pro Ile
 65 70 75 80
 Ala Ser Tyr Cys Gly Gln His Ile Arg Tyr Cys Val Gly His Arg Glu
 85 90 95
 35 Leu Arg Ile Leu Leu His Leu Ala Glu Asp Gly Gln Ala Leu Gln Met
 100 105 110
 Gly Leu Xaa Asn Leu Asn Phe Asp Cys Tyr Gly Leu His Leu Lys
 115 120 125
 40
 <210> 948
 <211> 183
 <212> PRT
 <213> Homo sapiens
 45 <400> 948
 Trp Thr Pro Ala Cys Thr Val Leu Arg Lys Gln Asp Ser Gly Glu Ala
 1 5 10 15
 Pro Phe Ser Ser Thr Lys Val Lys Xaa Lys Ser Lys Lys Lys Pro
 20 25 30
 50 Lys Asp Ser Lys Pro Met Leu Val Gly Ser Gly Thr Thr Ser Val Thr
 35 40 45
 Ser Asn Asn Glu Ile Ile Thr Ser Ser Glu Asp His Ser Asn Arg Asn
 50 55 60
 Ser Asp Xaa Ala Gly Pro Phe Ala Val Pro Asp His Leu Arg Gln Asp
 65 70 75 80
 Val Glu Glu Phe Glu Ala Leu Tyr Asp Gln His Ser Asn Glu Tyr Val
 85 90 95
 Val Arg Asn Lys Lys Leu Trp Asp Met Asn Pro Lys Gln Lys Cys Ser
 100 105 110
 60 Thr Leu Tyr Asp Tyr Phe Ser Gln Phe Leu Glu Glu His Gly Pro Leu
 115 120 125
 Asp Met Ser Asn Lys Met Phe Ser Ala Glu Tyr Glu Phe Phe Pro Glu
 130 135 140

Glu Thr Arg Gln Ile Leu Glu Lys Ala Gly Gly Leu Lys Pro Phe Leu
 145 150 155 160
 Leu Gly Cys Pro Arg Phe Val Val Ile Asp Asn Cys Ile Ala Leu Lys
 165 170 175
 5 Lys Val Ala Ser Arg Leu Lys
 180
 <210> 949
 <211> 219
 10 <212> PRT
 <213> Homo sapiens
 <400> 949
 Leu Leu Asn Gly Leu Asp Pro Gln Lys Ile Lys Gln Leu Asn Leu Ala
 1 5 10 15
 Met Ile Asn Tyr Val Leu Val Val Tyr Gly Leu Ala Ile Ser Leu Leu
 20 25 30
 Gly Ile Gly Gln Pro Glu Glu Leu Ser Glu Ala Glu Asn Gln Phe Lys
 35 40 45
 20 Arg Ile Ile Glu His Tyr Pro Ser Glu Gly Leu Asp Cys Leu Ala Tyr
 50 55 60
 Cys Gly Ile Gly Lys Val Tyr Leu Lys Lys Asn Arg Phe Leu Glu Ala
 65 70 75 80
 Leu Asn His Phe Glu Lys Ala Arg Thr Leu Ile Tyr Arg Leu Pro Gly
 85 90 95
 25 Val Leu Thr Trp Pro Thr Ser Asn Val Ile Ile Glu Glu Ser Gln Pro
 100 105 110
 Gln Lys Ile Lys Met Leu Leu Glu Lys Phe Val Glu Glu Cys Lys Phe
 115 120 125
 30 Pro Pro Val Pro Asp Ala Ile Cys Cys Tyr Gln Lys Cys His Gly Tyr
 130 135 140
 Ser Lys Ile Gln Ile Tyr Ile Thr Asp Pro Asp Phe Lys Gly Phe Ile
 145 150 155 160
 Arg Ile Ser Cys Cys Gln Tyr Cys Lys Ile Glu Phe His Met Asn Cys
 165 170 175
 35 Trp Lys Lys Leu Lys Thr Thr Thr Phe Asn Asp Lys Ile Asp Lys Gly
 180 185 190
 Phe Ser Thr Arg Glu Tyr Val Leu Pro Leu Thr Val Xaa Gly Ser Phe
 195 200 205
 40 Leu Xaa Ile Ile Ile Phe Ser Ser Gly Trp Val
 210 215
 <210> 950
 <211> 116
 45 <212> PRT
 <213> Homo sapiens
 <400> 950
 Arg Ala Ser Asn Ser Ser Thr Ser Cys Arg Arg Trp Ser Gly Thr Ala
 1 5 10 15
 Asn Gly Pro Ala Glu Ser Glu Phe Arg Leu Leu Trp Ser Ser Leu Glu
 20 25 30
 Val Met Ile Ser Leu Phe Glu Val Thr Glu Val Val Pro Asp Pro Thr
 35 40 45
 55 Asn Ile Gly Phe Glu Ser Phe Gly Phe Phe Phe Leu Leu Leu Phe Phe
 50 55 60
 Thr Leu Val Glu Leu Asn Xaa Ala Ser Pro Leu Ser Cys Phe Leu Asn
 65 70 75 80
 Thr Val Gln Arg Val Pro Leu Tyr Gln Arg Ile His Leu Lys His Tyr
 85 90 95
 60 Ala Met Leu Gly Asn Leu Ala Leu Gly Ser Ser Ser Thr Ile Leu Asn
 100 105 110
 Asn Gly Phe Leu

115

<210> 951
 <211> 127
 <212> PRT
 <213> Homo sapiens

5

<400> 951

Ala Val Met Gln Pro Ser Ser Val Gln Tyr Ser Cys Gln Ser Gln Gln
 1 5 10 15
 Asn Glu Gly Ile Pro Arg Glu Lys Val Leu Asn Leu Leu Leu Phe Leu
 20 25 30
 Val Ser Val Glu Phe Leu Leu Gly Lys Thr His Ile Leu Gln Arg Thr
 35 40 45
 Ser Cys Tyr Ser Cys Pro Arg Asp His Val Pro Pro Lys Thr Glu Arg
 50 55 60
 Ser Asn His Ile Glu Leu Asn Ile Phe Val Leu Gly Ser Cys Pro Ile
 65 70 75 80
 Ala Ser Tyr Cys Gly Gln His Ile Arg Tyr Cys Val Gly His Arg Glu
 85 90 95
 Leu Arg Ile Leu Leu His Leu Ala Glu Asp Gly Gln Ala Leu Gln Met
 100 105 110
 Gly Leu Gln Asn Leu Asn Phe Asp Cys Tyr Gly Leu His Leu Lys
 115 120 125

25

<210> 952
 <211> 184
 <212> PRT
 <213> Homo sapiens

30

<400> 952

Tyr Asn Gly Thr Arg Cys Thr Val Leu Arg Lys Gln Asp Ser Gly Glu
 1 5 10 15
 Xaa Pro Phe Ser Ser Thr Lys Val Lys Asn Lys Ser Lys Lys Lys
 20 25 30
 Pro Lys Asp Ser Lys Pro Met Leu Val Gly Ser Gly Thr Thr Ser Val
 35 40 45
 Thr Ser Asn Asn Glu Ile Ile Thr Ser Ser Glu Asp His Ser Asn Arg
 50 55 60
 Asn Ser Asp Ser Ala Gly Pro Phe Ala Val Pro Asp His Leu Arg Gln
 65 70 75 80
 Asp Val Glu Glu Phe Glu Ala Leu Tyr Asp Gln His Ser Asn Glu Tyr
 85 90 95
 Val Val Arg Asn Lys Lys Leu Trp Asp Met Asn Pro Lys Gln Lys Cys
 100 105 110
 Ser Thr Leu Tyr Asp Tyr Phe Ser Gln Phe Leu Glu Glu His Gly Pro
 115 120 125
 Leu Asp Met Ser Asn Lys Met Phe Ser Ala Glu Tyr Glu Phe Phe Pro
 130 135 140
 Glu Glu Thr Arg Gln Ile Leu Glu Lys Ala Gly Gly Leu Lys Pro Phe
 145 150 155 160
 Leu Leu Gly Cys Pro Arg Phe Val Val Ile Asp Asn Cys Ile Ala Leu
 165 170 175
 Lys Lys Val Ala Ser Arg Leu Lys
 180

55

<210> 953
 <211> 185
 <212> PRT
 <213> Homo sapiens

60

<400> 953

Tyr Asn Xaa Xaa Pro Leu Val Leu Val Leu Arg Lys Gln Asp Ser Gly

	1			5					10					15			
	Glu	Xaa	Pro	Phe	Ser	Ser	Thr	Lys	Val	Lys	Asn	Lys	Ser	Lys	Lys	Lys	
				20					25					30			
5	Lys	Pro	Lys	Asp	Ser	Lys	Pro	Met	Leu	Val	Gly	Ser	Gly	Thr	Thr	Ser	
			35					40					45				
	Val	Thr	Ser	Asn	Asn	Glu	Ile	Thr	Ser	Ser	Glu	Asp	His	Ser	Asn		
		50					55					60					
	Arg	Asn	Ser	Asp	Ser	Ala	Gly	Pro	Phe	Ala	Val	Pro	Asp	His	Leu	Arg	
	65					70					75					80	
10	Gln	Asp	Val	Glu	Glu	Phe	Glu	Ala	Leu	Tyr	Asp	Gln	His	Ser	Asn	Glu	
					85					90					95		
	Tyr	Val	Val	Arg	Asn	Lys	Lys	Leu	Trp	Asp	Met	Asn	Pro	Lys	Gln	Lys	
				100					105					110			
	Cys	Ser	Thr	Leu	Tyr	Asp	Tyr	Phe	Ser	Gln	Phe	Leu	Glu	Glu	His	Gly	
15			115					120					125				
	Pro	Leu	Asp	Met	Ser	Asn	Lys	Met	Phe	Ser	Ala	Glu	Tyr	Glu	Phe	Phe	
		130					135					140					
	Pro	Glu	Glu	Thr	Arg	Gln	Ile	Leu	Glu	Lys	Ala	Gly	Gly	Leu	Lys	Pro	
	145					150					155					160	
20	Phe	Leu	Leu	Gly	Cys	Pro	Arg	Phe	Val	Val	Ile	Asp	Asn	Cys	Ile	Ala	
					165					170					175		
	Leu	Lys	Lys	Val	Ala	Ser	Arg	Leu	Lys								
				180					185								
25		<210>	954														
		<211>	125														
		<212>	PRT														
		<213>	Homo sapiens														
30		<400>	954														
	Met	Gln	Pro	Ser	Ser	Val	Gln	Tyr	Ser	Cys	Gln	Ser	Gln	Gln	Asn	Glu	
	1				5					10					15		
	Gly	Ile	Pro	Arg	Glu	Lys	Val	Leu	Asn	Leu	Leu	Leu	Phe	Leu	Val	Ser	
				20					25					30			
35	Val	Glu	Phe	Leu	Leu	Gly	Lys	Thr	His	Ile	Leu	Gln	Arg	Thr	Ser	Cys	
			35					40					45				
	Tyr	Ser	Cys	Pro	Arg	Asp	His	Val	Pro	Pro	Lys	Thr	Glu	Arg	Ser	Asn	
		50					55					60					
	His	Ile	Glu	Leu	Asn	Ile	Phe	Val	Leu	Gly	Ser	Cys	Pro	Ile	Ala	Ser	
40						70					75					80	
	Tyr	Cys	Gly	Gln	His	Ile	Arg	Tyr	Cys	Val	Gly	His	Arg	Glu	Leu	Arg	
					85					90					95		
	Ile	Leu	Leu	His	Leu	Ala	Glu	Asp	Gly	Gln	Ala	Leu	Gln	Met	Gly	Leu	
				100					10								

Glu Leu Ile Ser Asp Glu Ala Gln Ala Asp Leu Ala Leu Arg Ser Leu
 85 90 95
 Asp Ser Tyr Pro Val Thr Ser Lys Asn Asp Gly Thr Arg Pro Lys Met
 100 105 110
 5 Thr Pro Glu Gln Met Ala Lys Glu Met Ser Glu Phe Leu Ser Arg Gly
 115 120 125
 Pro Ala Val Leu Ala Thr Lys Ala Ala Ala Gly Thr Lys Lys Tyr Asp
 130 135 140
 10 Leu Ser Lys Trp Lys Tyr Ala Glu Leu Arg Asp Thr Ile Asn Thr Ser
 145 150 155 160
 Cys Asp Ile Glu Leu Leu Ala Ala Cys Arg Glu Glu Phe His Arg Arg
 165 170 175
 Leu Lys Val Tyr His Ala Trp Lys Ser Lys Asn Lys Lys Arg Asn Leu
 180 185 190
 15 Glu Gln Ser Asn Val Leu Gln Ser Leu Leu Leu Ile Met Leu Ser Lys
 195 200 205
 Thr Gln Gln Leu
 210

 20 <210> 956
 <211> 121
 <212> PRT
 <213> Homo sapiens

 25 <400> 956
 His Phe Phe Gly His Leu Phe Arg Cys His Phe Gly Ser Cys Ser Ile
 1 5 10 15
 Ile Phe Arg Ser Tyr Arg Ile Gly Ile Gln Ala Pro Gln Arg Gln Val
 20 25 30
 30 Gly Leu Gly Leu Ile Thr Asp Glu Leu Gly Phe Thr Leu Gly Asn Pro
 35 40 45
 Gln Gly Gln Leu Pro Val Pro Ala Leu Leu Leu Gln Asn Cys Leu Leu
 50 55 60
 35 Leu Gly Phe Leu Leu Leu Leu Ser Gly Gln Leu Cys Leu His Phe Ser
 65 70 75 80
 Leu Asn Ala Phe Phe Ile Ile Phe Pro Phe Leu Ser Leu Phe Phe Phe
 85 90 95
 Leu Phe Ser Leu Cys Phe His Leu Lys Phe His Pro Pro Phe Leu Leu
 100 105 110
 40 Phe Leu Ser Ser Thr Phe Phe Val Phe
 115 120

 <210> 957
 <211> 221
 45 <212> PRT
 <213> Homo sapiens

 <400> 957
 Glu Arg Lys Arg Arg Glu Glu Asp Glu Lys Arg Arg Arg Lys Glu Glu
 1 5 10 15
 Glu Glu Arg Arg Met Lys Leu Glu Met Glu Ala Lys Arg Lys Gln Glu
 20 25 30
 Glu Glu Glu Arg Lys Lys Arg Glu Asp Asp Glu Lys Arg Ile Gln Ala
 35 40 45
 55 Glu Val Glu Ala Gln Leu Ala Arg Gln Lys Glu Glu Glu Ser Gln Gln
 50 55 60
 Gln Ala Val Leu Glu Gln Glu Arg Arg Asp Arg Glu Leu Ala Leu Arg
 65 70 75 80
 Ile Ala Gln Ser Glu Ala Glu Leu Ile Ser Asp Glu Ala Gln Ala Asp
 85 90 95
 60 Leu Ala Leu Arg Arg Gly Pro Ala Val Leu Ala Thr Lys Ala Ala Ala
 100 105 110
 Gly Thr Lys Lys Tyr Asp Leu Ser Lys Trp Lys Tyr Ala Glu Leu Arg

115 120 125
 Asp Thr Ile Asn Thr Ser Cys Asp Ile Glu Leu Leu Ala Ala Cys Arg
 130 135 140
 Glu Glu Phe His Arg Arg Leu Lys Val Tyr His Ala Trp Lys Ser Lys
 145 150 155 160
 5 Asn Lys Lys Arg Asn Thr Glu Thr Glu Gln Arg Ala Pro Lys Ser Val
 165 170 175
 Thr Asp Tyr Ala Gln Gln Asn Pro Ala Ala Gln Ile Pro Ala Arg Gln
 180 185 190
 10 Arg Glu Ile Glu Met Asn Pro Thr Ala Thr Leu Leu Ser His Xaa Ile
 195 200 205
 His Ser Ala Leu Pro Asp Gln Tyr Lys Arg Pro Ser Glu
 210 215 220
 15 <210> 958
 <211> 93
 <212> PRT
 <213> Homo sapiens
 20 <400> 958
 Phe Ser Lys Cys Ser Ala Ser Asn Ile Phe Leu Phe Lys Lys Phe Leu
 1 5 10 15
 Val Ser Phe Leu Ala Phe Glu Val Leu Val Ile Val Asp Leu Phe His
 20 25 30
 25 Lys Leu Cys Asn Ser Glu Ile Leu Val Phe Ser Lys Cys Leu Phe Tyr
 35 40 45
 Ile Thr Asp Asn Phe Lys Met Phe Ser Leu Cys Ala Val Ser Ile Asp
 50 55 60
 Ser Asn Val Ser Ser Phe Lys Pro Asn Ile Tyr Asp Phe His Ile Trp
 65 70 75 80
 30 Asn Leu Lys Thr Lys Ile His Gln Gly Val Met Leu Thr
 85 90
 35 <210> 959
 <211> 93
 <212> PRT
 <213> Homo sapiens
 40 <400> 959
 Phe Ser Lys Cys Ser Ala Ser Asn Ile Phe Leu Phe Lys Lys Phe Leu
 1 5 10 15
 Val Ser Phe Leu Ala Phe Glu Val Leu Val Ile Val Asp Leu Phe His
 20 25 30
 45 Lys Leu Cys Asn Ser Glu Ile Leu Val Phe Ser Lys Cys Leu Phe Tyr
 35 40 45
 Ile Thr Asp Asn Phe Lys Met Phe Ser Leu Cys Ala Val Ser Ile Asp
 50 55 60
 Ser Asn Val Ser Ser Phe Lys Pro Asn Ile Tyr Asp Phe His Ile Trp
 65 70 75 80
 50 Asn Leu Lys Thr Lys Ile His Gln Gly Val Met Leu Thr
 85 90
 55 <210> 960
 <211> 193
 <212> PRT
 <213> Homo sapiens
 60 <400> 960
 Trp Trp Asn His Phe Arg Ser Lys Asn Val Arg Arg Ile Asn Leu Gln
 1 5 10 15
 Lys Asn Ile Ile Gly Ser Ser Pro Val Ala Asp Phe Ser Ala Ile Lys
 20 25 30
 Glu Leu Asp Thr Leu Asn Asn Glu Ile Val Asp Leu Gln Arg Glu Lys

35 40 45
 Asn Asn Val Glu Gln Asp Leu Lys Glu Lys Glu Asp Thr Ile Lys Gln
 50 55 60
 5 Arg Thr Ser Glu Val Gln Asp Leu Gln Asp Glu Val Gln Arg Glu Asn
 65 70 75 80
 Thr Asn Leu Gln Lys Leu Gln Ala Gln Lys Gln Gln Val Gln Glu Leu
 85 90 95
 Leu Asp Glu Leu Asp Glu Gln Lys Ala Gln Leu Glu Glu Gln Leu Lys
 100 105 110
 10 Glu Val Arg Lys Lys Cys Ala Glu Glu Ala Gln Leu Ile Ser Ser Leu
 115 120 125
 Lys Ala Glu Leu Thr Ser Gln Glu Ser Gln Ile Ser Thr Tyr Glu Glu
 130 135 140
 Glu Leu Ala Lys Ala Arg Glu Glu Leu Ser Arg Leu Gln Gln Glu Thr
 145 150 155 160
 15 Gln Asn Trp Arg Xaa Ser Val Lys Ser Gly Lys Ala Gln Phe Xaa Thr
 165 170 175
 Xaa Leu Ala Ala Pro Thr Arg Phe Thr Thr Xaa Lys Leu Val Gln Cys
 180 185 190
 20 Gln

<210> 961
 <211> 82
 25 <212> PRT
 <213> Homo sapiens

<400> 961
 30 Leu Thr Tyr Arg Gly Lys Arg Ile Met Trp Asn Arg Thr Leu Arg Arg
 1 5 10 15
 Arg Lys Ile Leu Leu Asn Arg Gly Gln Val Arg Phe Arg Ile Phe Lys
 20 25 30
 Met Lys Phe Lys Gly Arg Ile Leu Ile Cys Lys Asn Tyr Arg Pro Arg
 35 40 45
 35 Asn Ser Arg Tyr Arg Asn Ser Leu Met Asn Trp Met Ser Arg Lys Pro
 50 55 60
 Ser Trp Arg Ser Asn Ser Arg Lys Ser Glu Arg Asn Val Leu Arg Arg
 65 70 75 80
 Pro Asn

<210> 962
 <211> 219
 <212> PRT
 45 <213> Homo sapiens

<400> 962
 50 Ala Ala Gln Leu Ser Leu Thr Gln Leu Ser Ser Gly Asn Pro Val Tyr
 1 5 10 15
 Glu Lys Tyr Tyr Arg Gln Val Asp Thr Gly Asn Thr Gly Arg Val Leu
 20 25 30
 Ala Ser Asp Ala Ala Ala Phe Leu Lys Lys Ser Gly Leu Pro Asp Leu
 35 40 45
 55 Ile Leu Gly Lys Ile Trp Asp Leu Ala Asp Thr Asp Gly Lys Gly Ile
 50 55 60
 Leu Asn Lys Gln Glu Phe Phe Val Ala Leu Arg Leu Val Ala Cys Ala
 65 70 75 80
 Gln Asn Gly Leu Glu Val Ser Leu Ser Ser Leu Asn Leu Ala Val Pro
 85 90 95
 60 Pro Pro Arg Phe His Asp Thr Ser Ser Pro Leu Leu Ile Ser Gly Thr
 100 105 110
 Ser Ala Ala Glu Leu Pro Trp Ala Val Lys Pro Glu Asp Lys Ala Lys
 115 120 125

Tyr Asp Ala Ile Phe Asp Ser Leu Ser Pro Val Asn Gly Phe Leu Ser
 130 135 140
 Gly Asp Lys Val Lys Pro Val Leu Leu Asn Ser Lys Leu Pro Val Asp
 145 150 155 160
 5 Ile Leu Gly Arg Val Trp Glu Leu Ser Asp Ile Asp His Asp Gly Met
 165 170 175
 Leu Asp Arg Xaa Xaa Phe Ala Val Ala Met Phe Leu Val Tyr Xaa Ala
 180 185 190
 10 Thr Gly Lys Lys Asn Leu Cys Gln Cys Pro Cys Xaa Gln Pro Trp Val
 195 200 205
 Pro Pro Ile Leu Arg Lys Lys Thr Xaa Val Gly
 210 215

 <210> 963
 15 <211> 109
 <212> PRT
 <213> Homo sapiens

 <400> 963
 20 Leu Ala Lys Asp Tyr Trp Tyr His Glu Ile Leu Val Glu Glu Gln Pro
 1 5 10 15
 Gly Ser Asn Tyr Leu Val Lys Leu Pro Ile His Ser Gly His Met Pro
 20 25 30
 Gln Asp Ala Lys Gln Gln Arg Ile Leu Val Cys Ser Gly Tyr Leu Cys
 25 35 40 45
 His Leu Cys Arg Leu Asn Pro Lys Ser Phe Gln Val Ser Ser Leu Glu
 50 55 60
 Ala Leu Ile Phe Ser Gly Lys Gln Gln His Gln Lys Pro Thr Pro Phe
 65 70 75 80
 30 Gln Tyr Cys Leu Tyr Gln Pro Val Tyr Ser Ile Phe His Ile Gln Asp
 85 90 95
 Ser His Leu Ile Thr Val Ser Glu Arg Ala Gly Pro Pro
 100 105

 35 <210> 964
 <211> 118
 <212> PRT
 <213> Homo sapiens

 <400> 964
 40 Pro Thr Xaa Val Phe Phe Leu Lys Met Gly Gly Thr Gln Gly Xaa Arg
 1 5 10 15
 Gln Gly His Trp His Arg Phe Phe Phe Pro Val Xaa Gln Tyr Thr Lys
 20 25 30
 45 Asn Met Ala Thr Ala Xaa Ser Xaa Leu Ser Ser Ile Pro Ser Trp Ser
 35 40 45
 Ile Ser Leu Asn Ser Gln Thr Leu Pro Arg Ile Ser Thr Gly Asn Leu
 50 55 60
 Glu Leu Ser Asn Thr Gly Phe Thr Leu Ser Pro Asp Arg Asn Pro Phe
 50 65 70 75 80
 Thr Gly Leu Lys Leu Ser Asn Ile Ala Ser Tyr Leu Ala Leu Ser Ser
 85 90 95
 Gly Phe Thr Ala His Gly Ser Ser Ala Ala Glu Val Pro Leu Ile Ser
 100 105 110
 55 Lys Gly Leu Leu Val Ser
 115

 <210> 965
 <211> 78
 60 <212> PRT
 <213> Homo sapiens

 <400> 965

Thr Gly Gln Gly Pro Xaa Lys Xaa Arg Met Ala Ala Met Leu Xaa Leu
 1 5 10 15
 Leu Leu Ala Leu Tyr Leu Met Xaa Ile Phe Xaa Gly Xaa Lys Phe Xaa
 20 25 30
 5 Pro Xaa Leu Ser Leu Lys Arg Asn Ile Xaa Phe Xaa Thr Xaa Phe Val
 35 40 45
 Arg Asn Arg Xaa Xaa Phe Ile Ser Gln Pro Pro Trp Xaa Gly Phe Gly
 50 55 60
 Gly Pro Lys Asn Xaa Xaa Lys Xaa Lys Xaa Xaa Phe Phe Lys
 10 65 70 75

<210> 966

<211> 181

<212> PRT

15 <213> Homo sapiens

<400> 966

Glu Leu Thr Val Phe Gln Ser Lys Asp Val Pro Glu Lys Thr Ser Ser
 1 5 10 15
 20 Pro Glu Glu Ser Ile Arg Met Thr Lys Gly Ile Thr Met Ala Thr Ala
 20 25 30
 Lys Ala Val Ala Ala Gly Asn Ser Cys Arg Gln Glu Asp Val Ile Ala
 35 40 45
 Thr Ala Asn Leu Ser Arg Lys Ala Val Ser Asp Met Leu Thr Ala Cys
 50 55 60
 25 Lys Gln Ala Ser Phe His Pro Asp Val Ser Asp Glu Val Arg Thr Arg
 65 70 75 80
 Ala Leu Arg Phe Gly Thr Glu Cys Thr Leu Gly Tyr Leu Asp Leu Leu
 85 90 95
 30 Glu His Val Leu Val Ile Leu Gln Lys Pro Thr Pro Glu Phe Lys Gln
 100 105 110
 Gln Leu Ala Ala Phe Ser Lys Arg Val Ala Gly Ala Val Thr Glu Leu
 115 120 125
 Ile Gln Ala Ala Glu Ala Met Lys Gly Thr Glu Trp Val Asp Pro Glu
 130 135 140
 35 Asp Pro Thr Val Ile Ala Glu Thr Glu Leu Leu Gly Ala Ala Ala Ser
 145 150 155 160
 Ile Glu Ala Ala Ala Lys Lys Leu Glu Gln Leu Lys Pro Arg Ala Lys
 165 170 175
 40 Pro Lys Gln Ala Gly
 180

<210> 967

<211> 90

45 <212> PRT

<213> Homo sapiens

<400> 967

Leu Ser Thr Gly Ser Arg Gly Phe Val Trp Met Thr Leu Cys Glu Leu
 1 5 10 15
 Lys Gln Pro Leu Gln Gly Lys Glu Pro Thr Asp Cys Ile Thr Ala Pro
 20 25 30
 Ala His Gln Ala Pro Thr Ala Phe Arg Asn Xaa Ala Leu Trp Thr Thr
 35 40 45
 55 Glu Glu Gln Asn Asn Arg Ser Val Phe Trp Ala Thr Lys Tyr Xaa Met
 50 55 60
 Gly Leu Gly Cys Thr Arg Ser Leu His Thr Glu Ala Xaa Lys Arg Ala
 65 70 75 80
 Asn Arg Gly Gly Asn Phe Ser Pro Pro Gly
 85 90
 60

<210> 968

<211> 100

<212> PRT

<213> Homo sapiens

<400> 968

5 Asn Ser Leu Cys Arg Val Arg Ser Pro Gln Thr Val Leu Gln Pro Leu
 1 5 10 15
 Leu Thr Lys Pro Arg Arg Pro Ser Ala Thr Xaa Pro Phe Gly Leu Arg
 20 25 30
 Arg Asn Lys Ile Ile Val Gln Phe Ser Gly Pro Gln Asn Thr Xaa Trp
 35 40 45
 10 Val Trp Val Val Gln Gly Ala Tyr Thr Arg Arg Gln Xaa Ser Val Gln
 50 55 60
 Thr Gly Ala Gly Ile Phe His Pro Leu Gly Glu Pro Val Leu Lys Thr
 65 70 75 80
 15 Trp Lys Glu Asp Leu Ser His Pro Pro Gly Val His Thr Gly Leu Cys
 85 90 95
 Phe Trp Leu Leu
 100

<210> 969

<211> 125

<212> PRT

<213> Homo sapiens

<400> 969

25 Gly Leu Lys Xaa Xaa Ala Lys Met Arg Pro Xaa Gly Asn Ala Xaa Gly
 1 5 10 15
 Xaa Ile Gly Gln Thr Val Phe Xaa Lys Xaa Trp Ala Xaa Ser Glu Thr
 20 25 30
 30 Xaa Pro Xaa Xaa Pro Gly Xaa Ser Xaa Lys Xaa Xaa Gly Val Val Phe
 35 40 45
 Thr Phe Leu Ser Arg Gly His Xaa Trp Asn Val Arg Met Ser Xaa Val
 50 55 60
 Lys Cys Xaa Thr Gln Asn Ser Phe Ala Xaa Ser Xaa His Ala Ser Xaa
 65 70 75 80
 35 Cys Xaa Arg Lys Xaa Gly Cys Thr Phe His Gly Leu Val Thr Asn Lys
 85 90 95
 Glu Lys Ser Val Leu Cys Cys Xaa Gln Thr Leu Trp Leu Leu Val
 100 105 110
 40 Leu Leu Leu Gly Leu Leu Leu Asp Leu Phe Met Ile Leu
 115 120 125

<210> 970

<211> 122

<212> PRT

<213> Homo sapiens

<400> 970

50 Asn Xaa Pro Xaa Xaa Ser Arg Xaa Lys Xaa Glu Xaa Xaa Gly Gly Cys
 1 5 10 15
 Phe His Ile Phe Val Pro Trp Ala Xaa Val Glu Cys Ser Tyr Val Xaa
 20 25 30
 Gly Lys Met Xaa Tyr Pro Lys Phe Phe Cys Arg Xaa Xaa Ser Cys Leu
 35 40 45
 55 Xaa Val Xaa Gln Lys Xaa Gly Val His Val Ser Trp Thr Cys Tyr Gln
 50 55 60
 Gln Arg Lys Val Ser Ile Met Leu Xaa Ser Asp Thr Leu Ala Phe Val
 65 70 75 80
 Gly Pro Ser Leu Arg Pro Ala Pro Gly Pro Leu Tyr Asp Ile Val Ile
 85 90 95
 60 Gly Lys Lys Ile Ile Asp Val Ile Glu Tyr Ser Ser Ser Ser Gln Glu
 100 105 110
 Lys Thr Glu Ala Gly Val Gly His Gly Ser

115 120

<210> 971
 <211> 169
 5 <212> PRT
 <213> Homo sapiens

<400> 971
 Cys Ile Lys Gln Glu Leu Thr Val Phe Gln Ser Lys Asp Val Pro Glu
 10 1 5 10 15
 Lys Thr Ser Ser Pro Glu Glu Ser Ile Xaa Met Thr Lys Gly Ile Thr
 20 20 25 30
 Met Ala Thr Ala Lys Ala Val Ala Ala Gly Asn Ser Cys Xaa Gln Glu
 35 40 45
 15 Asp Val Ile Ala Thr Ala Asn Leu Ser Arg Lys Ala Val Ser Asp Met
 50 55 60
 Leu Thr Ala Cys Lys Gln Ala Ser Phe His Pro Asp Val Ser Asp Glu
 65 70 75 80
 Val Arg Thr Xaa Ala Leu Arg Phe Gly Thr Glu Cys Thr Leu Gly Tyr
 20 85 90 95
 Leu Asp Leu Leu Glu His Val Leu Val Ile Leu Gln Lys Pro Thr Pro
 100 105 110
 Glu Phe Lys Gln Gln Leu Ala Ala Phe Ser Lys Arg Val Ala Gly Ala
 115 120 125
 25 Val Thr Glu Leu Ile Gln Ala Ala Glu Ala Met Lys Gly Thr Glu Trp
 130 135 140
 Val Asp Pro Glu Asp Pro Thr Val Ile Ala Glu Thr Glu Leu Leu Gly
 145 150 155 160
 Ala Ala Ala Ser Ile Glu Ala Ala Cys
 30 165

<210> 972
 <211> 112
 <212> PRT
 35 <213> Homo sapiens

<400> 972
 Arg Gly Glu Asn Xaa Ser Leu Ala Phe Arg Asp Gly Val His Pro Trp
 1 5 10 15
 40 Leu Leu Gly Pro Pro Gly Ala Arg Leu Gly Asp Ser Ser Glu Thr Asn
 20 25 30
 Pro Arg Ile Gln Ala Ala Ala Gly Arg Phe Leu Gln Ala Ser Arg Arg
 35 40 45
 Arg Cys Asp Arg Ala His Pro Gly Gly Gly Ser His Glu Arg Asn Arg
 50 55 60
 Val Gly Gly Ser Arg Arg Pro Asn Cys His Cys Arg Asn Arg Val Thr
 65 70 75 80
 Gly Gly Cys Ser Ile His Arg Ser Cys Leu Leu Lys Lys Leu Glu Gln
 85 90 95
 50 Leu Lys Pro Arg Ala Lys Pro Lys Gln Ala Asp Glu Thr Leu Gly Leu
 100 105 110

<210> 973
 <211> 95
 55 <212> PRT
 <213> Homo sapiens

<400> 973
 Leu Cys Phe Cys Asn Asp Ser Trp Val Phe Trp Ile His Pro Leu Cys
 1 5 10 15
 Ser Phe His Gly Phe Arg Arg Leu Asp Glu Leu Cys His Ser Ala Gly
 20 25 30
 Asp Ser Leu Gly Glu Ser Gly Gln Leu Leu Leu Glu Phe Trp Gly Trp

35 40 45
 Phe Leu Lys Asn His Gln Asp Val Leu Gln Glu Val Gln Val Ala Lys
 50 55 60
 Gly Ala Leu Arg Pro Glu Thr Gln Gly Xaa Gly Ser His Leu Val Thr
 5 65 70 75 80
 Asp Ile Gly Val Glu Gly Cys Leu Leu Ala Ser Arg Gln His Ile
 85 90 95

 <210> 974
 10 <211> 95
 <212> PRT
 <213> Homo sapiens

 <400> 974
 15 Pro Arg Val His Ser Val Pro Lys Arg Lys Ala Xaa Val Leu Thr Ser
 1 5 10 15
 Ser Leu Thr Ser Gly Trp Lys Asp Ala Cys Leu Gln Ala Val Asn Ile
 20 20 25 30
 Ser Asp Thr Ala Phe Arg Leu Arg Leu Ala Val Ala Ile Thr Ser Ser
 35 40 45
 Cys Xaa His Glu Phe Pro Ala Thr Ala Leu Ala Val Ala Met Val
 50 55 60
 Met Pro Phe Val Ile Xaa Met Asp Ser Ser Gly Asp Asp Val Phe Ser
 65 70 75 80
 25 Gly Thr Ser Phe Asp Trp Asn Thr Val Ser Ser Cys Phe Met His
 85 90 95

 <210> 975
 <211> 159
 30 <212> PRT
 <213> Homo sapiens

 <400> 975
 35 Arg Xaa Xaa Gly Gly Thr Gln Lys Gly Xaa Pro Gln Xaa Met Ala Pro
 1 5 10 15
 Xaa Xaa Asn Trp Thr Asn Lys Phe Ser Xaa Lys Val Gly Pro Leu Ser
 20 25 30
 Trp Lys Xaa Ala Pro Xaa Xaa Pro Gly Xaa Ser Leu Glu Xaa Leu Xaa
 35 40 45
 40 Xaa Leu Phe Ser His Phe Leu Ser Pro Trp Ala Xaa Gly Gly Met Phe
 50 55 60
 Xaa Met Ser His Gly Tyr Asn Cys Leu Thr His Lys Phe Phe Cys Arg
 65 70 75 80
 Xaa Pro Ser Cys Xaa Xaa Val Xaa Gln Xaa Xaa Gly Val His Val Ser
 85 90 95
 45 Trp Thr Cys Tyr Gln Gln Arg Lys Val Ser Ile Met Leu Phe Ser Asp
 100 105 110
 Thr Leu Ala Phe Val Gly Pro Ser Leu Arg Pro Ala Pro Gly Pro Leu
 115 120 125
 50 Tyr Asp Ile Val Ile Gly Lys Lys Ile Ile Asp Val Ile Glu Tyr Ser
 130 135 140
 Ser Ser Ser Gln Glu Lys Thr Glu Ala Gly Val Gly His Gly Ser
 145 150 155

 <210> 976
 <211> 118
 <212> PRT
 <213> Homo sapiens

 <400> 976
 60 Xaa Trp Asn Pro Lys Gly Glu Xaa Pro Gly Xaa Gly Pro Trp Xaa Xaa
 1 5 10 15
 Leu Asp Lys Gln Val Phe Xaa Lys Gly Trp Ala Ile Lys Leu Glu Thr

20 25 30
 Xaa Pro Xaa Xaa Ser Arg Val Xaa Pro Gly Xaa Pro Xaa Xaa Phe Val
 35 40 45
 Phe Thr Phe Phe Val Pro Val Gly His Xaa Trp Asn Val Arg Xaa Val
 5 50 55 60
 Thr Arg Val Gln Leu Ser Tyr Pro Gln Ile Leu Leu Pro Xaa Pro Phe
 65 70 75 80
 Met Xaa His Xaa Xaa Ser Glu Xaa Arg Gly Ala Arg Phe Met Asp Leu
 85 90 95
 10 Leu Pro Thr Lys Lys Ser Gln Tyr Tyr Val Val Leu Arg His Phe Gly
 100 105 110
 Phe Cys Trp Ser Phe Ser
 115
 15 <210> 977
 <211> 141
 <212> PRT
 <213> Homo sapiens
 20 <400> 977
 Trp Leu Xaa Ala Ser Xaa Cys Ser Val Leu Met Cys Val Ser Trp Lys
 1 5 10 15
 Xaa Ala Arg Leu Ala Ala Gln Arg Gly Gln Ser Val Arg Leu Trp Leu
 20 25 30
 25 Xaa Arg Gly Cys Arg Arg Xaa Leu Trp Gly Xaa Arg Leu Xaa Leu Arg
 35 40 45
 Gly Arg Leu Arg Gly Arg Arg Gly Leu Trp Gly Leu Leu Arg Gly Trp
 50 55 60
 Arg Arg Arg Leu Leu Leu Gly His Pro His Val Ala Arg Ala Arg Arg
 65 70 75 80
 30 Gly Gly Arg Gly Ala Ala Asp Ala Val Ala Ala Arg Val Gly Asp Leu
 85 90 95
 Ala Val Arg Gly Arg His Pro Arg Val Ala Val Gly Arg Gln Val Leu
 100 105 110
 35 Val Lys Leu Val Asp Ile Glu Gly Leu Asp Val Gly Asp Asp Val Ala
 115 120 125
 Ala Gln Leu Ala Asp Val His Val Ala Glu Val Asp Arg
 130 135 140
 40 <210> 978
 <211> 72
 <212> PRT
 <213> Homo sapiens
 45 <400> 978
 Leu Glu Xaa Gly Pro Ala Ser Cys Ser Ala Trp Ser Glu Cys Ala Pro
 1 5 10 15
 Val Ala Ala Xaa Gly Val Pro Pro Xaa Ala Val Gly Xaa Pro Pro Thr
 20 25 30
 50 Xaa Ala Gly Ala Pro Ala Gly Pro Ala Gly Pro Val Gly Ala Ala Ala
 35 40 45
 Gly Val Ala Ala Ala Pro Ala Ala Trp Thr Ser Thr Arg Gly Pro Arg
 50 55 60
 Ser Pro Gly Trp Pro Arg Cys Cys
 55 65 70
 <210> 979
 <211> 96
 <212> PRT
 60 <213> Homo sapiens
 <400> 979
 Pro Ile Asp Phe Arg Asp Val Asp Ile Gly Glu Leu Ser Ser Asp Val

1 5 10 15
 Ile Ser Asn Ile Glu Thr Phe Asp Val Asn Glu Phe Asp Gln Tyr Leu
 20 25 30
 Pro Pro Asn Gly His Pro Gly Val Pro Ala Thr His Gly Gln Val Thr
 35 40 45
 Tyr Thr Gly Ser Tyr Gly Ile Ser Ser Thr Ala Ala Thr Pro Ala Ser
 50 55 60
 Ala Gly His Val Trp Met Ser Lys Gln Gln Ala Pro Pro Pro Pro Pro
 65 70 75 80
 10 Gln Gln Pro Pro Gln Ala Pro Pro Ala Pro Gln Ala Pro Pro Gln Xaa
 85 90 95

<210> 980

<211> 103

15 <212> PRT

<213> Homo sapiens

<400> 980

20 Ala Ala Thr Ser Ser Pro Thr Ser Arg Pro Ser Met Ser Thr Ser Leu
 1 5 10 15
 Thr Ser Thr Cys Arg Pro Thr Ala Thr Arg Gly Cys Arg Pro Arg Thr
 20 25 30
 Ala Arg Ser Pro Thr Arg Ala Ala Thr Ala Ser Ala Ala Pro Arg Pro
 35 40 45
 25 Pro Arg Arg Ala Arg Ala Thr Cys Gly Cys Pro Ser Ser Arg Arg Arg
 50 55 60
 Arg His Pro Arg Ser Ser Pro His Arg Pro Arg Arg Pro Arg Arg Arg
 65 70 75 80
 Pro Arg Xaa Arg Arg Arg Xaa Pro His Ser Xaa Arg Arg His Pro Xaa
 85 90 95
 30 Ser Ser His Arg Arg Thr Leu
 100

<210> 981

35 <211> 164

<212> PRT

<213> Homo sapiens

<400> 981

40 Asp Ala Gly Ala His Ala Gly Ala Arg Gln Arg Leu Gln Gln Glu Gln
 1 5 10 15
 Ala Ala Arg Gln Ala Ala His Glu Arg Leu His Gly Val Gly Ala Gly
 20 25 30
 Gly Ala Gln Glu Ala Arg Gly Pro Val Pro Ala Leu Ala Gln Arg Arg
 35 40 45
 45 Ala Gln Gln Asp Ala Gly Gln Ala Leu Glu Thr Ser Glu Arg Glu Arg
 50 55 60
 Glu Ala Ala Leu Arg Gly Gly Gly Gly Ala Ala Ala Arg Ala Ala Gln
 65 70 75 80
 50 Glu Gly Pro Pro Gly Leu Gln Val Pro Ala Ala Ala Glu Glu Val Gly
 85 90 95
 Glu Glu Arg Ala Gly Gly Gly Arg Gly Gly His Gly Ala Asp Ala His
 100 105 110
 Leu Pro Gln Arg His Leu Gln Gly Ala Ala Gly Arg Leu Ala Thr Leu
 115 120 125
 55 Leu Xaa Arg His Glu Arg Gly Ala Leu Pro Arg Arg Ala Leu Gly Ala
 130 135 140
 Ile Pro Gly Pro Thr Asp Pro Thr His His Pro Gln Asn Arg Arg Ala
 145 150 155 160
 60 Ala Gly Gln Gly

<210> 982

<211> 192
 <212> PRT
 <213> Homo sapiens

5 <400> 982
 Thr Leu Val Pro Met Pro Val Arg Val Asn Gly Ser Ser Lys Asn Lys
 1 5 10 15
 Pro His Val Lys Arg Pro Met Asn Ala Phe Met Val Trp Ala Gln Ala
 20 25 30
 10 Ala Arg Arg Lys Leu Ala Asp Gln Tyr Pro His Leu His Asn Ala Glu
 35 40 45
 Leu Ser Lys Thr Leu Gly Lys Leu Trp Arg Leu Leu Asn Glu Ser Glu
 50 55 60
 Lys Arg Pro Phe Val Glu Glu Ala Glu Arg Leu Arg Val Gln His Lys
 15 65 70 75 80
 Lys Asp His Pro Asp Tyr Lys Tyr Gln Pro Arg Arg Arg Lys Ser Val
 85 90 95
 Lys Asn Gly Gln Ala Glu Ala Glu Glu Ala Thr Glu Gln Thr His Ile
 100 105 110
 20 Ser Pro Asn Ala Ile Phe Lys Ala Leu Gln Ala Asp Ser Pro His Ser
 115 120 125
 Ser Xaa Gly Met Ser Glu Val His Ser Pro Gly Glu His Ser Gly Gln
 130 135 140
 Ser Gln Gly Pro Pro Thr Pro Pro Thr Thr Pro Lys Thr Asp Val Gln
 25 145 150 155 160
 Pro Gly Lys Ala Asp Leu Lys Arg Glu Gly Arg Pro Leu Pro Glu Gly
 165 170 175
 Gly Arg Gln Ala Pro Tyr Arg Leu Ser Arg Arg Gly His Xaa Ala Ser
 180 185 190

30 <210> 983
 <211> 196
 <212> PRT
 <213> Homo sapiens

35 <400> 983
 Arg Arg Cys Ser Ala Arg Xaa Met Ser Thr Ser Arg Lys Ser Ile Gly
 1 5 10 15
 40 Gly Leu Ser Ala Pro Leu Trp Gln Gly Ala Pro Leu Ser Leu Gln Val
 20 25 30
 Ser Leu Ala Arg Leu His Val Gly Phe Gly Gly Gly Gly Trp Gly Arg
 35 40 45
 Trp Ala Leu Gly Leu Pro Arg Val Leu Ala Gly Gly Val His Leu Ala
 50 55 60
 45 His Ala Xaa Gly Gly Val Trp Arg Val Gly Leu Gln Arg Leu Glu Asp
 65 70 75 80
 Gly Val Gly Gly Asp Val Arg Leu Leu Arg Gly Leu Leu Cys Leu Arg
 85 90 95
 Leu Pro Val Leu His Arg Leu Pro Pro Pro Arg Leu Val Leu Val Ile
 50 100 105 110
 Arg Val Val Leu Leu Val Leu His Ala Gln Pro Leu Arg Leu Leu His
 115 120 125
 Glu Gly Pro Leu Leu Ala Leu Val Gln Lys Ser Pro Glu Leu Ala Gln
 130 135 140
 55 Arg Leu Ala Glu Leu Gly Val Val Gln Val Arg Val Leu Val Arg Glu
 145 150 155 160
 Leu Pro Ala Arg Arg Leu Arg Pro His His Glu Gly Val His Gly Pro
 165 170 175
 Leu Asp Val Arg Leu Val Leu Ala Gly Ala Val Asp Ala His Arg His
 60 180 185 190
 Gly His Gln Arg
 195

<210> 984
 <211> 99
 <212> PRT
 <213> Homo sapiens

5

<400> 984

Met Ser Leu Arg Lys Lys Lys Lys Lys Lys Lys Gln Xaa Gln Asn Lys
 1 5 10 15
 Lys Xaa Lys Lys Thr Pro Met Ser Lys Gly Glu Phe Trp Val Xaa Ser
 10 20 25 30
 Phe Ser Phe Phe Gly Leu Phe Phe Arg Asp His Leu Xaa His Xaa Arg
 35 40 45
 Pro Leu Trp Gly Gly Pro Pro Gln Xaa Ser Xaa Trp Lys Leu Gly Xaa
 50 55 60
 Xaa Thr Gly Phe Val Xaa Lys Xaa Leu Gly Gly Leu Gly Gly Xaa Xaa
 65 70 75 80
 Pro Gly Met Xaa Lys Gly Asp Pro His Xaa Gly Val Arg Ala Xaa Xaa
 85 90 95
 Gly Gly Trp

20

<210> 985
 <211> 96
 <212> PRT
 <213> Homo sapiens

25

<400> 985

Gly Arg Arg Arg Arg Arg Lys Asn Lys Xaa Lys Ile Lys Lys Xaa Lys
 1 5 10 15
 Lys His Gln Cys Pro Lys Gly Asn Ser Gly Xaa Gly Pro Ser Leu Ser
 20 25 30
 Ser Gly Tyr Phe Leu Gly Ile Ile Xaa Ala Xaa Xaa Ala Leu Cys Gly
 35 40 45
 Glu Ala Leu Leu Xaa Gly Pro Xaa Gly Asn Leu Gly Xaa Xaa Pro Gly
 50 55 60
 Leu Xaa Pro Asn Xaa Trp Gly Gly Leu Val Gly Xaa Xaa Arg Gly Xaa
 65 70 75 80
 Gly Lys Gly Thr Pro Ile Xaa Val Phe Gly Pro Xaa Xaa Gly Gly Gly
 85 90 95

40

<210> 986
 <211> 133
 <212> PRT
 <213> Homo sapiens

45

<400> 986

Gly His Pro Glu Gly Pro Gly Ala His Leu Asp Met Asn Ser Leu Asp
 1 5 10 15
 Arg Ala Gln Ala Ala Lys Asn Lys Gly Asn Lys Tyr Phe Lys Ala Gly
 20 25 30
 Lys Tyr Glu Gln Ala Ile Gln Cys Tyr Thr Glu Ala Ile Ser Leu Cys
 35 40 45
 Pro Thr Glu Lys Asn Val Asp Leu Ser Thr Phe Tyr Gln Asn Arg Ala
 50 55 60
 Ala Ala Phe Glu Gln Leu Gln Lys Trp Lys Glu Val Ala Gln Asp Cys
 65 70 75 80
 Thr Lys Ala Val Glu Leu Asn Pro Lys Tyr Val Lys Ala Leu Phe Arg
 85 90 95
 Arg Ala Lys Ala His Glu Lys Leu Asp Asn Lys Lys Glu Cys Leu Glu
 100 105 110
 Asp Val Thr Ala Val Cys Ile Leu Glu Gly Phe Gln Asn Gln Gln Ser
 115 120 125
 Met Leu Leu Ala Arg

60

130

5 <210> 987
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 987
 10 Leu Leu Met Gly Phe Cys Thr Ser Lys Glu Ser Phe His Ile Phe Gly
 1 5 10 15
 Ile Lys Phe Asn Ser Phe Cys Thr Val Leu Cys His Phe Phe Pro Phe
 20 25 30
 Leu Gln Leu Phe Lys Gly Ser Ser Val Leu Ile Lys Cys Arg Lys
 35 40 45
 15 Val Asn Ile Leu Leu Cys Arg Ala Gln Ala Asn Ser Leu Ser Ile Ala
 50 55 60
 Leu Asn Ser Leu Phe Ile Phe Ser Cys Phe Lys Ile Phe Ile Ala Phe
 65 70 75 80
 20 Ile Leu Gly Cys Leu Gly Ser Ile Lys Arg Val His Val Gln Val Ser
 85 90 95
 Thr Gly Thr Phe Arg Val Ser
 100

25 <210> 988
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 988
 30 Asn Gly Thr Cys Phe Ser Phe Leu Cys Val Ser Leu Pro Asn Pro Lys
 1 5 10 15
 Met Lys Glu Gly Arg Arg Val Glu Glu Asn Val Ser Val Asn Val Asn
 20 25 30
 Thr Ala Met Gln Ile Lys Thr Phe Leu Lys Ser Glu Val Ile Gln Arg
 35 35 40 45
 Cys Arg Thr Phe Leu Tyr Leu Gly Val Ile Arg Arg Cys Ile Ile Ser
 50 55 60

40 <210> 989
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 989
 45 Met Thr Ser Asp Phe Lys Lys Val Phe Ile Cys Met Ala Val Phe Thr
 1 5 10 15
 Leu Thr Leu Thr Phe Ser Ser Thr Leu Leu Pro Ser Phe Ile Leu Gly
 20 25 30
 Leu Gly Arg Glu Thr Gln Arg Lys Leu Lys His Val Pro Phe Tyr Thr
 35 40 45
 50 Val Ile Pro Asn Ser His Gly Leu Leu Pro Val Val Lys Met Phe Glu
 50 55 60
 Thr Ala Leu Lys Ala Ala Ser Val Cys Ile Phe Leu Leu
 65 70 75

55 <210> 990
 <211> 218
 <212> PRT
 <213> Homo sapiens

60 <400> 990
 Pro Gly Ser Gly His Pro Glu Gly Pro Gly Ala His Leu Asp Met Asn
 1 5 10 15

Ser Leu Asp Arg Ala Gln Ala Ala Lys Asn Lys Gly Asn Lys Tyr Phe
 20 25 30
 Lys Ala Gly Lys Tyr Glu Gln Ala Ile Gln Cys Tyr Thr Glu Ala Ile
 35 40 45
 5 Ser Leu Cys Pro Thr Glu Lys Asn Val Asp Leu Ser Thr Phe Tyr Gln
 50 55 60
 Asn Arg Ala Ala Ala Phe Glu Gln Leu Gln Lys Trp Lys Glu Val Ala
 65 70 75 80
 Gln Asp Cys Thr Lys Ala Val Glu Leu Asn Pro Lys Tyr Val Lys Ala
 85 90 95
 10 Leu Phe Arg Arg Ala Lys Ala His Glu Lys Leu Asp Asn Lys Lys Glu
 100 105 110
 Cys Leu Glu Asp Val Thr Ala Val Cys Ile Leu Glu Gly Phe Gln Asn
 115 120 125
 15 Gln Gln Ser Met Leu Leu Ala Asp Lys Val Leu Lys Leu Leu Gly Lys
 130 135 140
 Glu Lys Ala Lys Glu Lys Tyr Lys Asn Arg Glu Pro Leu Met Pro Ser
 145 150 155 160
 Pro Gln Phe Ile Lys Ser Tyr Phe Ser Ser Phe Thr Asp Asp Ile Ile
 165 170 175
 20 Ser Gln Pro Met Leu Lys Gly Glu Lys Ser Asp Glu Asp Lys Asp Lys
 180 185 190
 Glu Gly Xaa Ala Leu Glu Val Lys Arg Lys Phe Trp Ile Leu Lys Xaa
 195 200 205
 25 Pro Thr Val Tyr Xaa Arg Arg Lys Leu Arg
 210 215

 <210> 991
 <211> 268
 30 <212> PRT
 <213> Homo sapiens

 <400> 991
 35 Glu Asn Ile Met Val Phe Asn Trp Trp Ala Leu Phe Ser Glu Lys Ala
 1 5 10 15
 Val His Leu Gln Glu Glu Leu Ile Ala Ile Asn Ser Lys Lys Glu Glu
 20 25 30
 Leu Asn Gln Ser Val Asn Arg Val Lys Glu Leu Glu Leu Glu Leu Glu
 35 40 45
 40 Ser Val Lys Ala Gln Ser Leu Ala Ile Thr Lys Gln Asn His Met Leu
 50 55 60
 Asn Glu Lys Val Lys Glu Met Ser Asp Tyr Ser Leu Leu Lys Glu Glu
 65 70 75 80
 Lys Leu Glu Leu Leu Ala Gln Asn Lys Leu Lys Lys Gln Gln Leu Glu
 85 90 95
 45 Glu Ser Arg Asn Glu Asn Leu Arg Leu Leu Asn Arg Leu Ala Gln Pro
 100 105 110
 Ala Pro Glu Leu Ala Val Phe Gln Lys Glu Leu Arg Lys Ala Glu Lys
 115 120 125
 50 Ala Ile Val Val Glu His Glu Glu Phe Glu Ser Cys Arg Gln Ala Leu
 130 135 140
 His Lys Gln Leu Gln Asp Glu Ile Glu His Ser Ala Gln Leu Lys Ala
 145 150 155 160
 Gln Ile Leu Gly Tyr Lys Ala Ser Val Lys Ser Leu Thr Thr Gln Val
 165 170 175
 55 Ala Asp Leu Lys Leu Gln Leu Lys Gln Thr Gln Thr Ala Leu Glu Asn
 180 185 190
 Glu Val Tyr Cys Asn Pro Lys Gln Ser Val Ile Asp Arg Ser Val Asn
 195 200 205
 60 Gly Leu Ile Asn Gly Asn Val Val Pro Cys Asn Gly Glu Ile Ser Gly
 210 215 220
 Asp Phe Leu Asn Asn Pro Phe Lys Gln Glu Asn Val Leu Ala Arg Met
 225 230 235 240

	Gly	Ala	Ser	Arg	Ile	Thr	Asn	Tyr	Pro	Thr	Ala	Trp	Val	Glu	Gly	Ser	
					245					250							255
	Ser	Pro	Asp	Ser	Asp	Leu	Glu	Phe	Val	Ala	Gln	Tyr					
				260					265								
5				<210>	992												
				<211>	219												
				<212>	PRT												
				<213>	Homo sapiens												
10				<400>	992												
	Val	Lys	Ala	Gln	Ser	Leu	Ala	Ile	Thr	Lys	Gln	Asn	His	Met	Leu	Asn	
	1				5					10					15		
	Glu	Lys	Val	Lys	Glu	Met	Ser	Asp	Tyr	Ser	Leu	Leu	Lys	Glu	Glu	Lys	
15				20					25					30			
	Leu	Glu	Leu	Leu	Ala	Gln	Asn	Lys	Leu	Leu	Lys	Gln	Gln	Leu	Glu	Glu	
				35				40					45				
	Ser	Arg	Asn	Glu	Asn	Leu	Arg	Leu	Leu	Asn	Arg	Leu	Ala	Gln	Pro	Ala	
	50						55					60					
20	Pro	Glu	Leu	Ala	Val	Phe	Gln	Lys	Glu	Leu	Arg	Lys	Ala	Glu	Lys	Ala	
	65					70						75				80	
	Ile	Val	Val	Glu	His	Glu	Glu	Phe	Glu	Ser	Cys	Arg	Gln	Ala	Leu	His	
					85					90					95		
	Lys	Gln	Leu	Gln	Asp	Glu	Ile	Glu	His	Ser	Ala	Gln	Leu	Lys	Ala	Gln	
25				100					105					110			
	Ile	Leu	Gly	Tyr	Lys	Ala	Ser	Val	Lys	Ser	Leu	Thr	Thr	Gln	Val	Ala	
				115					120				125				
	Asp	Leu	Lys	Leu	Gln	Leu	Lys	Gln	Thr	Gln	Thr	Ala	Leu	Glu	Asn	Glu	
				130				135				140					
30	Val	Tyr	Cys	Asn	Pro	Lys	Gln	Ser	Val	Ile	Asp	Arg	Ser	Val	Asn	Gly	
	145					150					155					160	
	Leu	Ile	Asn	Gly	Asn	Val	Val	Pro	Cys	Asn	Gly	Glu	Ile	Ser	Gly	Asp	
					165					170					175		
	Phe	Leu	Asn	Asn	Pro	Phe	Lys	Gln	Glu	Asn	Val	Leu	Ala	Arg	Met	Gly	
35				180					185					190			
	Ala	Ser	Arg	Ile	Thr	Asn	Tyr	Xaa	Thr	Ala	Trp	Val	Xaa	Gly	Ser	Ser	
				195				200					205				
	Pro	Asp	Ser	Asp	Leu	Glu	Phe	Val	Ala	Gln	Tyr						
		210					215										
40				<210>	993												
				<211>	194												
				<212>	PRT												
				<213>	Homo sapiens												
45				<4													

130 135 140
 Lys Ile Ile Gln Gln Glu Gln Asp Gln Glu Ser Ala Asp Lys Ser Ser
 145 150 155 160
 Lys Lys Met Val Gln Glu Gly Ser Leu Val Asp Thr Leu Gln Ser Ser
 5 165 170 175
 Asp Lys Val Glu Ser Leu Thr Gly Phe Ser His Glu Glu Leu Asp Asp
 180 185 190
 Ser Trp

10
 <210> 994
 <211> 189
 <212> PRT
 <213> Homo sapiens

15
 <400> 994
 Glu Asn Ile Met Val Phe Asn Trp Trp Ala Leu Phe Ser Glu Lys Ala
 1 5 10 15
 Val His Leu Gln Glu Glu Leu Ile Ala Ile Asn Ser Lys Lys Glu Glu
 20 20 25 30
 Leu Asn Gln Ser Val Asn Arg Val Lys Glu Leu Glu Leu Glu Leu Glu
 35 40 45
 Ser Val Lys Ala Gln Ser Leu Ala Ile Thr Lys Gln Asn His Met Leu
 50 55 60
 25 Asn Glu Lys Val Lys Glu Met Ser Asp Tyr Ser Leu Leu Lys Glu Glu
 65 70 75 80
 Lys Leu Glu Leu Leu Ala Gln Asn Lys Leu Leu Lys Gln Gln Leu Glu
 85 90 95
 Glu Ser Arg Asn Glu Asn Leu Arg Leu Leu Asn Arg Leu Ala Gln Pro
 30 100 105 110
 Ala Pro Glu Leu Ala Val Phe Gln Lys Glu Leu Arg Lys Ala Glu Lys
 115 120 125
 Ala Ile Val Val Glu His Glu Glu Phe Glu Ser Cys Arg Gln Ala Leu
 130 135 140
 35 His Lys Gln Leu Gln Asp Glu Ile Glu His Ser Ala Gln Leu Lys Ala
 145 150 155 160
 Gln Ile Leu Gly Tyr Lys Ala Ser Val Lys Ser Leu Thr Thr Xaa Val
 165 170 175
 Ala Asp Leu Lys Leu Gln Leu Lys Gln Thr Gln Thr Pro
 40 180 185

 <210> 995
 <211> 125
 <212> PRT
 45 <213> Homo sapiens

 <400> 995
 Lys Thr Glu Gly Arg Glu Lys Glu Arg Arg Gln Ser Asn Xaa Gln Glu
 1 5 10 15
 50 Val Leu Glu Arg Glu Arg Arg Glu Leu Glu Lys Leu Tyr Gln Glu Arg
 20 25 30
 Lys Met Ile Glu Glu Ser Leu Lys Ile Lys Ile Lys Lys Glu Leu Glu
 35 40 45
 Met Glu Asn Glu Leu Glu Met Ser Asn Gln Glu Ile Lys Asp Lys Ser
 55 50 55 60
 Ala His Ser Glu Asn Pro Leu Glu Lys Tyr Met Lys Ile Ile Gln Gln
 65 70 75 80
 Glu Gln Asp Gln Glu Ser Ala Asp Lys Ser Ser Lys Lys Met Val Gln
 85 90 95
 60 Glu Gly Ser Leu Val Asp Thr Leu Gln Ser Ser Asp Lys Val Glu Ser
 100 105 110
 Leu Thr Gly Phe Xaa His Glu Glu Leu Asp Asp Ser Trp
 115 120 125

<210> 996
 <211> 466
 <212> PRT
 5 <213> Homo sapiens

<400> 996
 Thr Ile His Gln Val Ser Leu Asp Leu Asp Ser Leu Ala Glu Ser Pro
 1 5 10 15
 10 Glu Ser Asp Phe Met Ser Ala Val Asn Glu Phe Val Ile Glu Glu Asn
 20 25 30
 Leu Ser Ser Pro Asn Pro Ile Ser Asp Pro Gln Ser Pro Glu Met Met
 35 40 45
 Val Glu Ser Leu Tyr Ser Ser Val Ile Asn Ala Ile Asp Ser Arg Arg
 50 55 60
 15 Met Gln Asp Thr Asn Val Cys Gly Lys Glu Asp Phe Gly Asp His Thr
 65 70 75 80
 Ser Leu Asn Val Gln Leu Glu Arg Cys Arg Val Val Ala Gln Asp Ser
 85 90 95
 20 His Phe Ser Ile Gln Thr Ile Lys Glu Asp Leu Cys His Phe Arg Thr
 100 105 110
 Phe Val Gln Lys Glu Gln Cys Asp Phe Ser Asn Ser Leu Lys Cys Thr
 115 120 125
 Ala Val Glu Ile Arg Asn Ile Ile Glu Lys Val Lys Cys Ser Leu Glu
 130 135 140
 25 Ile Thr Leu Lys Glu Lys His Gln Lys Glu Leu Ser Leu Lys Asn
 145 150 155 160
 Glu Tyr Glu Gly Lys Leu Asp Gly Leu Ile Lys Glu Thr Glu Glu Asn
 165 170 175
 30 Glu Asn Lys Ile Lys Lys Leu Lys Gly Glu Leu Val Cys Leu Glu Glu
 180 185 190
 Val Leu Gln Asn Lys Asp Asn Glu Phe Ala Leu Val Lys His Glu Lys
 195 200 205
 Glu Ala Val Ile Cys Leu Gln Asn Glu Lys Asp Gln Lys Leu Xaa Glu
 210 215 220
 35 Met Glu Asn Ile Met His Ser Gln Asn Cys Glu Ile Lys Glu Leu Lys
 225 230 235 240
 Gln Ser Arg Glu Ile Val Leu Glu Asp Leu Lys Lys Leu His Val Glu
 245 250 255
 40 Asn Asp Glu Lys Leu Gln Leu Leu Arg Ala Glu Leu Gln Ser Leu Glu
 260 265 270
 Gln Ser His Leu Lys Glu Leu Glu Asp Thr Leu Gln Val Arg His Ile
 275 280 285
 Gln Glu Phe Glu Lys Val Met Thr Asp His Arg Val Ser Leu Glu Glu
 290 295 300
 45 Leu Lys Lys Glu Asn Gln Gln Ile Ile Asn Gln Ile Gln Glu Ser His
 305 310 315 320
 Ala Glu Ile Ile Gln Glu Lys Glu Lys Gln Leu Gln Glu Leu Lys Leu
 325 330 335
 50 Lys Val Ser Asp Leu Ser Asp Thr Arg Cys Lys Leu Glu Val Glu Leu
 340 345 350
 Ala Leu Lys Glu Ala Glu Thr Asp Glu Ile Lys Ile Leu Leu Glu Glu
 355 360 365
 Ser Arg Ala Gln Gln Lys Glu Thr Leu Lys Ser Leu Leu Glu Gln Glu
 370 375 380
 55 Thr Glu Asn Leu Arg Thr Glu Ile Ser Lys Leu Asn Gln Lys Ile Gln
 385 390 395 400
 Asp Asn Asn Glu Asn Tyr Gln Val Gly Leu Ala Glu Leu Arg Thr Leu
 405 410 415
 60 Met Thr Ile Glu Lys Asp Gln Cys Ile Ser Glu Leu Ile Ser Arg His
 420 425 430
 Glu Glu Glu Ser Asn Ile Leu Lys Ala Glu Leu Asn Lys Ser Tyr Ile
 435 440 445

Phe Cys Ile Thr Gln Pro Phe Xaa Ile Glu Lys Asn Leu Lys Glu Pro
 450 455 460
 Ile Xaa
 465

5

<210> 997
 <211> 237
 <212> PRT
 <213> Homo sapiens

10

<400> 997
 His Ser Gln Asn Cys Glu Ile Lys Glu Leu Lys Gln Ser Arg Glu Ile
 1 5 10 15
 Val Leu Glu Asp Leu Lys Lys Leu His Val Glu Asn Asp Glu Lys Leu
 15 20 25 30
 Gln Leu Leu Arg Ala Glu Leu Gln Ser Leu Glu Gln Ser His Leu Lys
 35 40 45
 Glu Leu Glu Asp Thr Leu Gln Val Arg His Ile Gln Glu Phe Glu Lys
 50 55 60
 Val Met Thr Asp His Arg Val Ser Leu Glu Glu Leu Lys Lys Glu Asn
 20 65 70 75 80
 Gln Gln Ile Ile Asn Gln Ile Gln Glu Ser His Ala Glu Ile Ile Gln
 85 90 95
 Glu Lys Glu Lys Gln Leu Gln Glu Leu Lys Leu Lys Val Ser Asp Leu
 25 100 105 110
 Ser Asp Thr Arg Cys Lys Leu Glu Val Glu Leu Ala Leu Lys Glu Ala
 115 120 125
 Glu Thr Asp Glu Ile Lys Ile Leu Leu Glu Glu Ser Arg Ala Gln Gln
 130 135 140
 Lys Glu Thr Leu Lys Ser Leu Leu Glu Gln Glu Thr Glu Asn Leu Arg
 30 145 150 155 160
 Thr Glu Ile Ser Lys Leu Asn Gln Lys Ile Gln Asp Asn Asn Glu Asn
 165 170 175
 Tyr Gln Val Gly Leu Ala Glu Leu Arg Thr Leu Met Thr Ile Glu Lys
 35 180 185 190
 Asp Gln Cys Ile Ser Glu Leu Ile Ser Xaa His Glu Glu Glu Ser Asn
 195 200 205
 Ile Leu Lys Ala Glu Xaa Asn Lys Ser Tyr Ile Phe Cys Ile Thr Gln
 210 215 220
 Pro Phe Xaa Ile Glu Lys Asn Leu Lys Glu Pro Ile Xaa
 40 225 230 235

45

<210> 998
 <211> 278
 <212> PRT
 <213> Homo sapiens

<400> 998
 Thr Ile His Gln Val Ser Leu Asp Leu Asp Ser Leu Ala Glu Ser Pro
 50 1 5 10 15
 Glu Ser Asp Phe Met Ser Ala Val Asn Glu Phe Val Ile Glu Glu Asn
 20 25 30
 Leu Ser Ser Pro Asn Pro Ile Ser Asp Pro Gln Ser Pro Glu Met Met
 35 40 45
 Val Glu Ser Leu Tyr Ser Ser Val Ile Asn Ala Ile Asp Ser Arg Arg
 50 55 60
 Met Gln Asp Thr Asn Val Cys Gly Lys Glu Asp Phe Gly Asp His Thr
 65 70 75 80
 Ser Leu Asn Val Gln Leu Glu Arg Cys Arg Val Val Ala Gln Asp Ser
 85 90 95
 His Phe Ser Ile Gln Thr Ile Lys Glu Asp Leu Cys His Phe Arg Thr
 100 105 110
 Phe Val Gln Lys Glu Gln Cys Asp Phe Ser Asn Ser Leu Lys Cys Thr

115 120 125
 Ala Val Glu Ile Arg Asn Ile Ile Glu Lys Val Lys Cys Ser Leu Glu
 130 135 140
 Ile Thr Leu Lys Glu Lys His Gln Lys Glu Leu Ser Leu Lys Asn
 5 145 150 155 160
 Glu Tyr Glu Gly Lys Leu Asp Gly Leu Ile Lys Glu Thr Glu Glu Asn
 165 170 175
 Glu Asn Lys Ile Lys Lys Leu Lys Gly Glu Leu Val Cys Leu Glu Glu
 180 185 190
 10 Val Leu Gln Asn Lys Asp Asn Glu Phe Ala Leu Val Lys His Glu Lys
 195 200 205
 Glu Ala Val Ile Cys Leu Gln Asn Glu Lys Asp Gln Lys Leu Xaa Glu
 210 215 220
 Met Glu Asn Ile Met Pro Ser Gln Asn Trp Glu Ile Xaa Glu Leu Lys
 15 225 230 235 240
 Gln Ser Arg Glu Ile Gly Leu Glu Asp Leu Lys Lys Leu Met Trp Lys
 245 250 255
 Met Met Arg Ser Xaa Gly Phe Gly Gly Xaa Thr Xaa Val Leu Gly Pro
 260 265 270
 20 Lys Ser Xaa Xaa Gly Ile
 275

<210> 999
 <211> 168
 25 <212> PRT
 <213> Homo sapiens

<400> 999
 Xaa Xaa Xaa His Glu Glu Glu Xaa Asn Xaa Leu Lys Gly Glu Leu Asn
 1 5 10 15
 Lys Xaa Thr Ser Leu His Asn Gln Ala Phe Glu Ile Glu Lys Xaa Leu
 20 25 30
 Lys Xaa Gln Ile Ile Xaa Leu Xaa Ser Lys Xaa Asp Ser Xaa Leu Xaa
 35 40 45
 Ala Xaa Glu Ser Gln Lys Asp Glu Lys Ile Xaa Pro Gln Glu Glu Lys
 50 55 60
 Xaa Glu Xaa Xaa Xaa Gln Thr Leu Glu Lys Xaa Ser Gln Lys Leu Val
 65 70 75 80
 Xaa Ser Gln Glu Gln Xaa Xaa Xaa Gln Leu Ile Gln Lys Xaa Asn Cys
 40 85 90 95
 Glu Lys Xaa Glu Ala Ile Gln Xaa Ala Leu Lys Xaa Phe Lys Leu Xaa
 100 105 110
 Xaa Xaa Val Val Xaa Lys Xaa Xaa Leu Glu Lys Val Xaa Xaa Xaa Glu
 115 120 125
 45 Asn Gln Xaa Ala Lys Ser Pro Ala Xaa Asp Xaa Xaa Xaa Gly Asp Phe
 130 135 140
 Ser Ser Leu Xaa Xaa Glu Leu Gln Xaa Lys Leu Gln Glu Xaa Lys Xaa
 145 150 155 160
 Lys Phe Leu Xaa Xaa Leu Glu Glu
 50 165

<210> 1000
 <211> 194
 <212> PRT
 55 <213> Homo sapiens

<400> 1000
 Glu Gly Lys Leu Gln Lys Ala Leu Glu Asp Ala Phe Leu Ala Ile Asp
 1 5 10 15
 60 Ala Lys Leu Thr Thr Glu Glu Val Ile Lys Glu Leu Ala Gln Ile Ala
 20 25 30
 Gly Arg Pro Thr Glu Asp Glu Asp Glu Lys Glu Lys Val Ala Asp Glu
 35 40 45

Asp Asp Val Asp Asn Glu Glu Ala Ala Leu Leu His Glu Glu Ala Thr
 50 55 60
 Met Thr Ile Glu Glu Leu Leu Thr Arg Tyr Gly Gln Asn Cys His Lys
 65 70 75 80
 5 Gly Pro Pro His Ser Lys Ser Gly Gly Gly Thr Gly Glu Glu Pro Gly
 85 90 95
 Ser Gln Gly Leu Asn Gly Glu Ala Gly Pro Glu Asp Ser Thr Arg Glu
 100 105 110
 10 Thr Pro Ser Gln Glu Asn Gly Pro Thr Ala Lys Ala Tyr Thr Gly Phe
 115 120 125
 Ser Ser Asn Ser Glu Arg Gly Thr Glu Ala Gly Gln Val Gly Glu Pro
 130 135 140
 Gly Ile Pro Thr Gly Glu Ala Gly Pro Ser Cys Ser Ser Ala Ser Asp
 145 150 155 160
 15 Lys Leu Leu Glu Leu Leu Ser Pro Ser Ser Leu Arg Thr Val Arg Met
 165 170 175
 Ser Gln Met Lys Arg Arg Lys Lys Lys Lys Thr Val Arg Asn Ala Ala
 180 185 190
 Arg Lys

20

<210> 1001

<211> 73

<212> PRT

25

<213> Homo sapiens

<400> 1001

Arg Val Ser Ser Ser Ser Ile Val Met Val Ala Ser Ser Cys Ser Ser
 1 5 10 15
 30 Ala Ala Ser Ser Leu Ser Thr Ser Ser Ser Ala Thr Phe Ser Phe
 20 25 30
 Ser Ser Ser Ser Ser Val Gly Arg Pro Ala Ile Cys Ala Ser Ser Leu
 35 35 40 45
 Met Thr Ser Ser Val Val Asn Leu Ala Ser Ile Ala Lys Lys Ala Ser
 50 55 60
 35 Ser Lys Ala Phe Cys Ser Leu Pro Ser
 65 70

40 <210> 1002

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1002

45 His Lys Xaa Val Xaa Phe Thr Glu Ala Xaa Asn Ser Trp Ser Leu Pro
 1 5 10 15
 Gly Gly Xaa Trp Asn Val Met Thr Thr Gln Lys Val Val Asp Phe Ile
 20 25 30
 50 Gln Ser Lys Ile Ser Gln Ala Xaa Glu Asn Gly Lys Phe Gly Ile Val
 35 40 45
 Ile His Cys Glu Xaa Leu Leu Asp Gln Cys Xaa Ala Pro Asp Thr Phe
 50 55 60
 Gly Asp Gly Thr Gly Cys Asp Asn Met Thr Cys Ile Ile Ile Xaa Phe
 65 70 75 80
 55 Lys Pro Arg Asn Thr Ala Glu Leu Gln Pro Glu Ser Gly Lys Arg Lys
 85 90 95
 Leu Glu Glu Val Leu Ser Thr Glu Gly Ala Glu Glu Asn Gly Asn Ser
 100 105 110
 60 Asp Lys Lys Lys Lys Ala Lys Arg Asp
 115 120

<210> 1003

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1003

5 Arg Arg Cys Ser Leu Leu Arg Gly Leu Lys Lys Met Ala Thr Ala Thr
 1 5 10 15
 Arg Arg Arg Arg Pro Ser Glu Thr Ser Ser His Pro Asp Pro Cys Pro
 20 25 30
 Pro Arg Leu Phe Xaa Glu Pro Ser Gly Pro Glu Thr Glu Phe Cys Leu
 35 40 45
 Phe Pro Leu Ala Leu Ala Val Gly Xaa Arg Cys Ala Gly Gly Ala Gly
 50 55 60
 Trp Leu His Ser Ala His Ser Lys Glu Gly Ser Pro Ser Thr Leu Gln
 65 70 75 80
 15 Pro Gly Ala Xaa Ala Val Leu Pro Ser Arg Xaa Cys Ser Ser Gly Ser
 85 90 95
 Ser Pro Val Leu Cys Leu Cys Ser Val Val Leu Glu Gly Arg Thr Gly
 100 105 110
 Gly Ser Gly Phe Tyr Ser Val Asn Phe Ile
 115 120
 20

<210> 1004

<211> 176

<212> PRT

25 <213> Homo sapiens

<400> 1004

Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly Lys Val Glu Val
 1 5 10 15
 30 Trp Cys Ile Gln Asp Leu His Arg Gln Pro Val Asp Pro Lys Arg His
 20 25 30
 Gly Gln Leu Cys Ala Gly Asn Cys Tyr Leu Val Leu Tyr Thr Tyr Gln
 35 40 45
 Arg Leu Gly Arg Val Gln Tyr Ile Leu Tyr Leu Trp Gln Gly His Gln
 50 55 60
 35 Ala Thr Ala Asp Xaa Ile Glu Ala Leu Asn Ser Asn Ala Glu Glu Leu
 65 70 75 80
 Asp Val Met Tyr Gly Gly Val Leu Val Gln Glu His Val Thr Met Gly
 85 90 95
 40 Ser Glu Pro Pro His Phe Leu Ala Ile Phe Gln Gly Gln Leu Val Ile
 100 105 110
 Phe Gln Glu Arg Ala Gly His His Gly Lys Gly Gln Ser Ala Ser Thr
 115 120 125
 Thr Arg Leu Phe Gln Val Gln Gly Thr Asp Ser His Asn Thr Arg Thr
 130 135 140
 45 Met Glu Val Pro Ala Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile Phe
 145 150 155 160
 Leu Leu Val Thr Ser Gln Arg Leu Leu Pro Leu Val Trp Glu Gly Leu
 165 170 175
 50

<210> 1005

<211> 143

<212> PRT

55 <213> Homo sapiens

<400> 1005

Pro Pro Pro Val Pro Ser His Val Asp His His Tyr Ser Pro Ser Gln
 1 5 10 15
 Thr Arg Gly Ser Arg Arg Trp Leu Val Thr Ser Lys Lys Met Ser Leu
 20 25 30
 Glu Leu Arg Asp Glu Ala Arg Ala Gly Thr Ser Met Val Leu Val Leu
 35 40 45
 Trp Leu Ser Val Pro Cys Thr Trp Lys Ser Leu Val Val Asp Ala Asp
 60

50 55 60
 Cys Pro Phe Pro Trp Cys Pro Ala Leu Ser Trp Lys Ile Thr Ser Trp
 65 70 75 80
 Pro Trp Lys Met Ala Arg Lys Trp Gly Gly Ser Leu Pro Met Val Thr
 85 90 95
 Cys Ser Cys Thr Arg Thr Pro Pro Tyr Met Thr Ser Ser Ser Ser Ala
 100 105 110
 Leu Leu Phe Arg Ala Ser Xaa Ser Ser Ala Val Ala Trp Trp Pro Cys
 115 120 125
 10 His Arg Tyr Arg Met Tyr Trp Thr Arg Pro Ser Leu Trp Tyr Val
 130 135 140

<210> 1006

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1006

20 Pro Xaa Val Pro Gln Glu Ser Gly Glu Trp Gln Pro Gly Lys Gln His
 1 5 10 15
 Gln Pro Xaa Phe Glu Ile Thr Ala Glu Val Asn Asn Leu Gly Leu Ser
 20 25 30
 Xaa Trp Pro Gly Asn Gly Arg Ala Gly Ala Val Ala Leu Gln Ala Leu
 35 40 45
 25 Lys Gly Ser Gln Asp Ser Ser Xaa Asn Asp Leu Val Arg Ser Pro Lys
 50 55 60
 Ser Ala Gly Ser Arg Thr Ser Xaa Ser Val Ser Ser Thr Xaa Ala Thr
 65 70 75 80
 Ile Asn Gly Gly Leu Arg Arg Glu Gln Xaa Met His Gln Ala Val Glu
 85 90 95
 30 Asp Leu Pro Xaa Xaa Val Asp Pro Ala Arg Arg Glu Phe Tyr Xaa Ser
 100 105 110
 Asp Xaa Asp Phe Gln Asp Xaa Phe Gly Lys Ser Lys Glu Glu Phe Tyr
 115 120 125
 35 Ser Met Ala Thr Trp Arg Gln Arg Gln Glu Lys Lys Gln Leu Gly Phe
 130 135 140
 Phe
 145

<210> 1007

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1007

45 Cys Thr Arg Leu Leu Arg Thr Cys Xaa Arg Xaa Trp Thr Leu Pro Ala
 1 5 10 15
 Gly Ser Ser Xaa Xaa Gln Thr Xaa Thr Ser Lys Ile Xaa Leu Gly Asn
 20 25 30
 50 Pro Arg Arg Asn Phe Thr Ala Trp Pro Arg Gly Gly Ser Gly Arg Arg
 35 40 45
 Lys Ser Ser Trp Ala Phe Phe Glu Pro Lys Pro Xaa Arg Leu Pro Leu
 50 55 60
 Ser Pro Gly Pro Gln His Thr Tyr Asn Ala Gly Glu Ala Leu Leu Pro
 65 70 75 80
 55 Leu Pro Ser Xaa Ala Phe Gly His Pro Leu Xaa Val Ser Lys Ser Arg
 85 90 95
 Gln Pro

<210> 1008

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1008

5 Ser Thr Cys Arg Gly Pro Lys Val Xaa Asn His Pro Met Lys Gly Gly
 1 5 10 15
 Glu Ala Leu Trp Pro Cys Leu Xaa Xaa Thr Asn Xaa Cys Xaa Pro Gly
 20 25 30
 Phe Leu Pro Leu Xaa Gly Xaa Lys Ser Phe Lys Xaa Thr Ser Leu Xaa
 35 40 45
 10 Pro Lys Ala Asn Pro Pro Xaa Phe Pro Xaa Xaa Phe Cys Xaa Phe Ser
 50 55 60
 Pro
 65

15 <210> 1009

<211> 193

<212> PRT

<213> Homo sapiens

20 <400> 1009

Tyr Leu Val Ala Leu Asp Lys Leu Asn Pro Tyr Thr Leu Tyr Thr Phe
 1 5 10 15
 Arg Ile Arg Cys Ser Thr Glu Thr Phe Trp Lys Trp Ser Lys Trp Ser
 20 25 30
 25 Asn Lys Lys Gln His Leu Thr Thr Glu Ala Ser Pro Ser Lys Gly Pro
 35 40 45
 Asp Thr Trp Arg Glu Trp Ser Ser Asp Gly Lys Asn Leu Ile Ile Tyr
 50 55 60
 Trp Lys Pro Leu Pro Ile Asn Glu Ala Asn Gly Lys Ile Leu Ser Tyr
 30 65 70 75 80
 Asn Val Ser Cys Ser Ser Asp Glu Glu Thr Gln Ser Leu Ser Glu Ile
 85 90 95
 Pro Asp Pro Gln His Lys Ala Glu Ile Arg Leu Asp Lys Asn Asp Tyr
 100 105 110
 35 Ile Ile Ser Val Val Ala Lys Asn Ser Val Gly Ser Ser Pro Pro Ser
 115 120 125
 Lys Ile Ala Ser Met Glu Ile Pro Asn Asp Asp Leu Lys Ile Glu Gln
 130 135 140
 Val Val Gly Met Gly Lys Gly Ile Leu Leu Thr Trp His Tyr Asp Pro
 40 145 150 155 160
 Asn Met Thr Cys Asp Tyr Val Ile Lys Trp Cys Asn Ser Ser Arg Ser
 165 170 175
 Glu Pro Cys Leu Met Asp Trp Arg Lys Val Pro Gln Thr Ala Leu Lys
 180 185 190
 45 Leu

<210> 1010

<211> 135

50 <212> PRT

<213> Homo sapiens

<400> 1010

Xaa Phe Pro Arg Asn Val Phe Pro Phe Xaa Leu Xaa Ile Glu Ser Ala
 55 1 5 10 15
 Xaa Val Ser Phe Thr Ser Lys Phe Gly His Gln Trp Glu Pro Ile Xaa
 20 25 30
 Leu Tyr Ile Gln Ser Trp Ser Val Ile Ile Asp Ile Leu Asp Phe Cys
 35 40 45
 60 Ile His Thr Gly Lys Asn Tyr Ile Leu Tyr Leu Val Glu Thr His Gln
 50 55 60
 Ile Leu Leu Gln Phe Gln Cys Cys Leu Arg Asn Phe Ser Pro Val His
 65 70 75 80

Lys Ala Trp Phe Arg Pro Arg Arg Val Thr Pro Leu Asn Asp Val Val
 85 90 95
 Ala Ser His Val Gly Val Val Met Pro Gly Glu Glu Asn Pro Leu Ser
 100 105 110
 5 His Pro Asn Asn Leu Phe Tyr Phe Glu Ile Ile Ile Trp Asn Phe His
 115 120 125
 Thr Arg Tyr Phe Gly Arg Trp
 130 135

 10 <210> 1011
 <211> 80
 <212> PRT
 <213> Homo sapiens

 15 <400> 1011
 Xaa Asn His Xaa Thr Arg Gly Lys Arg Pro Lys Val Xaa Trp Ile Trp
 1 5 10 15
 Ser Pro Arg Gly Xaa Xaa Xaa Val Gly Cys Xaa Pro Ser Gln Gly Ile
 20 25 30
 20 Leu Pro Leu Trp Xaa Met Ser Xaa His Ser Glu Ser Phe Pro Gln Pro
 35 40 45
 Pro Xaa Leu Val Pro Ser Ser His Phe Lys Tyr Lys Thr Lys Xaa Arg
 50 55 60
 Met Leu Leu Thr Gly Pro Val Pro Lys Gly Cys Phe Leu Glu Leu Ser
 25 65 70 75 80

 <210> 1012
 <211> 77
 <212> PRT
 30 <213> Homo sapiens

 <400> 1012
 Xaa Leu Thr Ile Xaa Pro Gly Val Ser Gly Gln Lys Xaa Asp Gly Phe
 1 5 10 15
 35 Gly Pro Pro Glu Glu Xaa Xaa Pro Trp Val Xaa Pro Gln Ala Arg Val
 20 25 30
 Phe Cys Pro Phe Xaa Xaa Cys Xaa Pro Thr Gln Ser Leu Phe Leu Ser
 35 40 45
 Pro His Xaa Leu Ser Arg Pro His Ile Leu Asn Ile Lys Leu Xaa Arg
 50 55 60
 40 Glu Cys Phe Leu Gln Asp Gln Tyr Pro Arg Ala Val Ser
 65 70 75

 <210> 1013
 45 <211> 117
 <212> PRT
 <213> Homo sapiens

 <400> 1013
 50 Leu Ile His Tyr Leu Gln Ile His Tyr Arg Ile Ser Asp Asp Lys Lys
 1 5 10 15
 Gln Thr Thr Asn Gln Lys Lys Gln Thr Lys Lys Thr Tyr Leu Ile Arg
 20 25 30
 Thr Leu Lys Ile Phe Lys Tyr Phe Cys Leu Lys Tyr Glu Lys Val Lys
 35 40 45
 55 Tyr Ile Gly Asn Leu Arg Ala Gly Lys Ile Gln Asp His Phe Leu Val
 50 55 60
 Phe Pro Ser Ala Phe Pro Arg Thr Thr Ile Thr Pro Asp Ile Ala Tyr
 65 70 75 80
 60 Glu Lys Gln Gly Trp Ala Glu Asp Ala Val Leu Lys Ala Ile Asn Ser
 85 90 95
 Ala Gln Leu Thr Lys Gln Leu Leu Pro Cys Asn Thr Gly Cys Pro Trp
 100 105 110

Ile Gln Ile Ser Leu
115

5 <210> 1014
<211> 212
<212> PRT
<213> Homo sapiens

<400> 1014
10 Ile Ser Asp Asn Ser Lys Ile Asn Phe Arg Leu Lys Pro Leu Asp Val
1 5 10 15
Ala Phe Met Lys Ala Ile His Asn Lys Val Asn Ile Val Pro Val Ile
20 25 30
Ala Lys Ala Asp Thr Leu Thr Leu Lys Glu Arg Glu Arg Leu Lys Lys
15 35 40 45
Arg Ile Leu Asp Glu Ile Glu Glu His Asn Ile Lys Ile Tyr His Leu
50 55 60
Pro Asp Ala Glu Ser Asp Glu Asp Glu Asp Phe Lys Glu Gln Thr Arg
65 70 75 80
20 Leu Leu Lys Ala Ser Ile Pro Phe Ser Val Val Gly Ser Asn Gln Leu
85 90 95
Ile Glu Ala Lys Gly Lys Lys Val Arg Gly Arg Leu Tyr Pro Trp Gly
100 105 110
Val Val Glu Val Glu Asn Pro Glu His Asn Asp Phe Leu Lys Leu Arg
115 120 125
25 Thr Met Leu Ile Thr His Met Gln Asp Leu Gln Glu Val Thr Gln Asp
130 135 140
Leu His Tyr Glu Asn Phe Arg Ser Glu Arg Leu Lys Arg Gly Gly Arg
145 150 155 160
30 Lys Val Glu Asn Glu Asp Met Asn Lys Asp Gln Ile Leu Leu Glu Lys
165 170 175
Glu Ala Glu Leu Arg Arg Met Gln Xaa Met Ile Ala Arg Met Gln Ala
180 185 190
Pro Asn Ala Asp Ala Xaa Cys Xaa Ala Gly Asp Gly Xaa Gly Gly Ala
195 200 205
35 Phe Arg Ala Thr
210

40 <210> 1015
<211> 143
<212> PRT
<213> Homo sapiens

<400> 1015
45 Gly Gly Pro Lys Ser Pro Ala Xaa Ala Ile Pro Gly Xaa Ala Xaa Gly
1 5 10 15
Ile Cys Ile Trp Gly Leu His Pro Cys Asn His Xaa Leu His Ala Ala
20 25 30
Glu Leu Ser Phe Phe Phe Gln Gln Asp Leu Val Phe Ile His Val Leu
35 40 45
50 Ile Leu His Phe Pro Ala Ala Ser Leu Glu Ser Leu Arg Thr Glu Val
50 55 60
Phe Ile Met Lys Val Leu Gly His Leu Leu Glu Ile Leu His Val Gly
65 70 75 80
55 Asp Glu His Gly Ser Gln Leu Gln Lys Val Ile Val Leu Trp Val Leu
85 90 95
His Phe His Asn Thr Pro Gly Val Glu Ala Ala Ser Asp Leu Leu Ser
100 105 110
Phe Gly Phe Asn Gln Leu Ile Gly Ser Asn His Arg Glu Trp Asp Ala
115 120 125
60 Ser Leu Glu Lys Ser Ser Leu Leu Phe Lys Ile Phe Ile Phe Ile
130 135 140

<210> 1016
 <211> 120
 <212> PRT
 <213> Homo sapiens

5

<400> 1016
 His Thr Phe Ile Asn Tyr Tyr Tyr Leu Thr Ala Ser Phe Tyr Gly Phe
 1 5 10 15
 Ser Ser Pro His Lys Asn Glu Lys Thr Leu Ser His Pro Gln Ile Lys
 10 20 25 30
 His Phe Leu His Leu Pro Thr Gln Pro Leu Ala Pro Phe Ile Trp Gln
 35 40 45
 Phe Leu Gly Gly Glu Phe Pro Thr Ser Val Xaa Met Asp Xaa Lys Arg
 50 55 60
 His Pro Leu Glu Xaa Ser Leu Arg Gly Pro Gln Xaa Lys Xaa Gly Thr
 15 65 70 75 80
 Leu Arg Xaa Pro Gly Xaa Xaa Lys Thr Lys Pro Gly Xaa Gly Xaa Asn
 85 90 95
 Gly Ala Asp Leu Ala Pro Tyr Pro Leu Leu Gln Asn Leu Lys Xaa Val
 100 105 110
 Phe Pro Phe Asp Leu Ala Xaa Arg
 115 120

<210> 1017
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 1017
 Val Phe Ser Lys Tyr Ile Ser Ile Gly Arg Asp Tyr Val Leu Val Lys
 1 5 10 15
 Glu Gln Leu Ser Ile Ile Lys Ser Ile Tyr Leu Asp Leu Gly Ser Lys
 20 25 30
 Thr Lys Gly Asp Gln Lys Cys Ser Ser Val Gly Pro Pro Ser Leu His
 35 35 40 45
 Ser Cys Tyr Gln Glu Ala Ala Cys Leu Lys Tyr Phe His Ser His Met
 50 55 60
 Arg Gly Leu Val Thr Ser Lys Leu Val Phe Leu Phe Tyr Arg Phe Ser
 65 70 75 80
 Ser Lys Val Ile Lys Cys Gln Thr Gln Ile Met Asp Ser Ala Trp Met
 85 90 95
 Tyr Ser Glu Val Met Glu His His Phe Leu Val Thr Phe Thr Gln
 100 105 110

<210> 1018
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 1018
 Arg Glu Arg Val Thr Gln Ser Ala Leu Val Pro Val Leu Ala Met Ala
 1 5 10 15
 Ser Phe Val Thr Glu Val Leu Ala His Ser Gly Arg Leu Glu Lys Glu
 20 25 30
 Asp Leu Gly Thr Arg Ile Ser Arg Leu Thr Arg Arg Val Glu Glu Ile
 35 40 45
 Lys Gly Glu Val Cys Asn Met Ile Ser Lys Lys Tyr Ser Glu Phe Leu
 50 55 60
 Pro Ser Met Gln Ser Ala Gln Gly Leu Ile Thr Gln Val Asp Lys Leu
 60 65 70 75 80
 Ser Glu Asp Ile Asp Leu Leu Lys Ser Arg Ile Glu Ser Glu Val Arg
 85 90 95
 Arg Asp Leu His Val Ser Thr Gly Glu Phe Thr Asp Leu Lys Gln Gln

100 105 110
 Leu Glu Arg Asp Ser Val Val Leu Ser Leu Leu Lys Gln Leu Gln Glu
 115 120 125
 Phe Ser Thr Ala Ile Glu Glu Tyr Asn Cys Ala Leu Thr Glu Lys Lys
 5 130 135 140
 Tyr Val Thr Gly Ala Gln Arg Leu Glu Glu Ala Gln Lys Cys Leu Lys
 145 150 155 160
 Leu Leu Lys Ser Arg Lys Cys Phe Asp Leu Lys Ile Leu Lys Ser Leu
 165 170 175
 10 Ser Met Glu Leu Thr Ile Gln Glu Thr Glu His Thr Leu Ser Pro Trp
 180 185 190
 Arg Arg Val Ala Glu Ala Asp Cys Met Glu Val Pro Thr Ile Lys Arg
 195 200 205
 Tyr Gln Pro Val Trp Glu Ser Leu Pro Tyr Lys
 15 210 215

<210> 1019

<211> 99

<212> PRT

20 <213> Homo sapiens

<400> 1019

Arg Ser Arg Arg Thr Ser Leu Ser Ile Leu Asp Phe Ser Arg Ser Met
 1 5 10 15
 25 Ser Ser Asp Ser Leu Ser Thr Trp Val Ile Arg Pro Cys Ala Leu Cys
 20 25 30
 Met Leu Gly Arg Asn Ser Leu Tyr Phe Leu Leu Ile Ile Leu His Thr
 35 40 45
 Ser Pro Leu Ile Ser Ser Thr Arg Arg Val Arg Arg Leu Ile Arg Val
 30 50 55 60
 Pro Arg Ser Ser Phe Ser Ser Leu Pro Glu Cys Ala Lys Thr Ser Val
 65 70 75 80
 Thr Asn Glu Ala Met Ala Lys Thr Gly Thr Asn Ala Asp Trp Val Thr
 85 90 95
 35 Leu Ser Leu

<210> 1020

<211> 131

<212> PRT

40 <213> Homo sapiens

<400> 1020

Ser Gln Thr Ser Lys Met Tyr Trp Phe Thr Lys Thr Asn Gly Arg Phe
 1 5 10 15
 Lys Glu Val Phe Lys Gly Xaa Ile Met Pro Arg Glu Glu Ser Thr Tyr
 20 25 30
 Ser Arg His Ser Phe Leu Lys Lys Met Glu Leu Phe Asn Phe Ser Lys
 35 40 45
 50 Gly Ser Cys Ser Ser Phe Leu Cys Leu Lys Gln Gly Arg Ile Lys Ala
 50 55 60
 Leu Leu His Trp Lys Xaa Thr His Cys Gln Gly Xaa Phe Xaa Ile Trp
 65 70 75 80
 Pro Thr Asp Pro Asn Xaa Leu Pro Ser Trp Leu Trp Glu Pro Ser Ser
 55 85 90 95
 Ser Asn Ser Leu Glu Trp Leu Pro Phe Leu Ala His Xaa Thr Gly Asn
 100 105 110
 Leu Phe Leu Lys Phe Xaa Gly Ala Trp Leu Ser Ser Lys Xaa Lys Gly
 115 120 125
 60 Gln Xaa Pro
 130

<210> 1021

<211> 222

<212> PRT

<213> Homo sapiens

5

<400> 1021

Pro Leu Glu Pro Ala Val Gly Pro Lys Ala Ala Cys Pro Leu Asp Ser
 1 5 10 15
 Glu Ser Ala Glu Gly Val Val Pro Pro Ala Ser Gly Gly Gly Arg Val
 20 25 30
 10 Gln Asn Ser Pro Pro Val Gly Arg Lys Thr Leu Pro Leu Thr Thr Ala
 35 40 45
 Pro Glu Ala Gly Glu Val Thr Pro Ser Asp Ser Gly Gly Gln Glu Asp
 50 55 60
 Ser Pro Ala Lys Gly Leu Ser Val Arg Leu Glu Phe Asp Tyr Ser Glu
 65 70 75 80
 15 Asp Lys Ser Ser Trp Asp Asn Gln Gln Glu Asn Pro Pro Pro Thr Lys
 85 90 95
 Lys Ile Gly Lys Lys Pro Val Ala Lys Met Pro Leu Arg Arg Pro Lys
 100 105 110
 20 Met Lys Lys Thr Pro Glu Lys Leu Asp Asn Thr Pro Ala Ser Pro Pro
 115 120 125
 Arg Ser Pro Ala Glu Pro Asn Asp Ile Pro Ile Ala Lys Gly Thr Tyr
 130 135 140
 Thr Phe Asp Ile Asp Lys Trp Asp Asp Pro Asn Phe Asn Pro Phe Ser
 145 150 155 160
 25 Ser Thr Ser Lys Met Gln Glu Ser Pro Lys Leu Pro Gln Gln Ser Tyr
 165 170 175
 Asn Phe Asp Pro Asp Thr Cys Asp Glu Ser Val Asp Pro Phe Lys Thr
 180 185 190
 30 Ser Ser Lys Pro Pro Ala His Leu Asn Pro Gln Pro Ser Phe Glu
 195 200 205
 Ile Pro Ala Ser Ala Ile Gly Ser Gln Trp Ser Gly Pro Gly
 210 215 220

35

<210> 1022

<211> 249

<212> PRT

<213> Homo sapiens

40

<400> 1022

Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Ile Xaa Xaa Ile
 1 5 10 15
 Cys Xaa Gly Xaa Gln Trp Xaa Xaa Arg Xaa Asn Xaa Xaa Xaa Xaa Xaa
 20 25 30
 45 His Xaa Xaa Leu Xaa Xaa Xaa Ile Xaa Xaa Xaa Gly Xaa Xaa Met Xaa
 35 40 45
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Met Xaa Xaa Cys Xaa Leu Xaa Xaa
 50 55 60
 Trp Gln Xaa Val Trp Xaa Arg Gln Ala Glu Ser Ala Cys Leu Leu Ile
 65 70 75 80
 50 His Xaa Cys Met Asn Xaa Pro Ala Leu Xaa Xaa Tyr Ser Xaa Arg Xaa
 85 90 95
 Cys Ser Phe Arg Asn Ala Gly Leu Val Gly Gly Leu Xaa Xaa Xaa Xaa
 100 105 110
 55 Xaa Ala Ser Asn Leu Xaa Asn Val Xaa Xaa Ala Pro Xaa Gln Xaa Xaa
 115 120 125
 Xaa Arg Val His Leu Xaa Gly Xaa Val Xaa Xaa Leu Leu Leu Arg
 130 135 140
 60 Leu Gly Xaa Thr Xaa Xaa Cys Glu His Thr Phe Thr His Xaa Xaa Ile
 145 150 155 160
 Leu Ala Glu Xaa Leu Xaa Arg Thr Gly Pro Ile Xaa Xaa Ile Ser Ser
 165 170 175
 Ile Xaa Gly Xaa Pro Arg Xaa Leu Phe His Arg Xaa Leu Xaa Xaa Xaa

180 185 190
 Xaa Arg Leu Ala Xaa Phe Leu Xaa Lys Pro Ser Leu Val Xaa Xaa Pro
 195 200 205
 5 Leu Xaa Gly Xaa Xaa Xaa Leu Xaa Phe Leu Gly Asp Xaa Pro Leu Tyr
 210 215 220
 Xaa Xaa Xaa Xaa Gln Trp Xaa Leu Phe Xaa Xaa Phe Xaa Pro Ile Phe
 225 230 235 240
 Xaa Pro Xaa Ile Phe Xaa His Leu Tyr
 245
 10 <210> 1023
 <211> 231
 <212> PRT
 <213> Homo sapiens
 15 <400> 1023
 Leu Gln Arg Leu Phe Glu Glu Phe Arg Asp Ser Asp Asp Val Leu Gly
 1 5 10 15
 His Ile Met Lys Asn Ile Thr Ala Lys Arg Ser Arg Ala Arg Ile Val
 20 20 25 30
 Asp Lys Leu Ala Leu Gly Leu Val Ala Glu Arg Arg Glu Leu Tyr
 35 40 45
 Lys Lys Arg Gln Lys Lys Leu Ala Ser Ser Ile Leu Pro Asn Gly Ala
 50 55 60
 25 Glu Ser Leu Lys Asp Phe Cys Gln Glu Asp Leu Glu Glu Glu Glu Asn
 65 70 75 80
 Leu Pro Glu Glu Asp Ser Glu Glu Glu Glu Gly Gly Ser Glu Ala
 85 90 95
 Glu Gln Val Gln Gly Ser Leu Val Leu Ser Asn Glu Asn Leu Gly Gln
 100 105 110
 30 Ser Leu His Gln Glu Gly Phe Ser Ile Pro Leu Leu Trp Leu Gln Asn
 115 120 125
 Cys Leu Ile Arg Ala Ala Asp Asp Arg Glu Glu Asp Gly Cys Ser Gln
 130 135 140
 35 Ala Val Pro Leu Val Pro Leu Thr Glu Glu Asn Glu Glu Ala Met Glu
 145 150 155 160
 Asn Glu Gln Phe Gln Gln Leu Leu Arg Lys Leu Gly Val Arg Pro Pro
 165 170 175
 Ala Ser Gly Gln Glu Thr Phe Trp Arg Ile Pro Ala Lys Leu Ser Pro
 180 185 190
 40 Thr Gln Leu Arg Arg Ala Ala Ala Ser Phe Glu Ser Thr Arg Gly Gly
 195 200 205
 Thr Glu Thr Cys Ser Gln Asn Cys Ser Leu Lys Xaa Leu Glu Ser Lys
 210 215 220
 45 Ala Leu Met Lys Ser Thr Cys
 225 230
 <210> 1024
 <211> 116
 50 <212> PRT
 <213> Homo sapiens
 <400> 1024
 Ile Arg Glu Xaa Ala Trp Asp Ser Thr Ala Leu Ser Ser Xaa Arg Ser
 1 5 10 15
 Phe Trp Val Leu Tyr Asp Pro Ser Asn Ser Asp Leu Asn Xaa Pro Xaa
 20 25 30
 Lys Asn Val Xaa Ile Ser Thr Pro Arg Ala Phe Leu Ala Phe Xaa Val
 35 40 45
 60 Ile Leu Asn Xaa Ser Leu Xaa Ser Gly Xaa Ser Val Leu Xaa Leu Gly
 50 55 60
 Phe Leu Gly Thr Ser Pro Thr Xaa Gly Gly Ser Cys Ser Leu Pro Leu
 65 70 75 80

Asn Xaa Xaa Xaa Leu Val Pro Arg Xaa Xaa Xaa Pro Thr Asn Leu Xaa
 85 90 95
 Val Phe Trp Xaa Gly Phe Pro Leu Xaa Gly Xaa Phe Tyr Xaa Thr Xaa
 100 105 110
 5 Gly Xaa Xaa Ser
 115
 <210> 1025
 <211> 110
 10 <212> PRT
 <213> Homo sapiens
 <400> 1025
 Tyr Gln Thr Gln Ser Lys Xaa Ile His His Xaa Xaa Tyr Tyr Xaa Pro
 15 1 5 10 15
 Thr Leu Xaa Gln Met Gln Glu Trp Ala Xaa Ile Trp Xaa Leu Xaa Asp
 20 25 30
 Asp His Arg Lys Gln Asn Glu Asp Arg Gly Xaa Trp Xaa Xaa Xaa Lys
 35 40 45
 20 Xaa Val Gln Asn Ser Arg Leu Ser Cys His Lys Ala Pro His Xaa Xaa
 50 55 60
 Leu Arg Pro Thr Ser Xaa Xaa Lys Pro Lys Glu Gln Thr Asn Lys Arg
 65 70 75 80
 Gly Pro Gly Xaa Phe Xaa Tyr Phe Thr His Ser Xaa Tyr Leu Leu Arg
 25 85 90 95
 Ser Ser Asn Asn Gln Xaa Lys Trp Phe Leu Lys Lys Xaa Asn
 100 105 110
 <210> 1026
 30 <211> 93
 <212> PRT
 <213> Homo sapiens
 <400> 1026
 Asn Xaa Glu Ser Xaa Pro Asp Pro Phe Tyr Trp Ser Val Pro Leu Ala
 35 1 5 10 15
 Xaa Xaa Trp Arg Trp Val Ala Xaa Pro Xaa Gly Glu Leu Tyr Asp Met
 20 25 30
 Thr Gly Gly Ser Phe Val Xaa Leu Xaa Xaa Thr Xaa Cys Leu Cys
 40 35 40 45
 Pro His Phe Val Ser Tyr Asp His Pro Xaa Xaa Thr Arg Xaa Arg Pro
 50 55 60
 Ile Pro Ala Phe Xaa Ile Gly Leu Glu Xaa Ser Thr Xaa Xaa Asp Glu
 65 70 75 80
 45 Xaa Val Cys Phe Val Phe Gly Ile Lys His Val Arg Leu
 85 90
 <210> 1027
 <211> 205
 50 <212> PRT
 <213> Homo sapiens
 <400> 1027
 Xaa Leu Xaa Ser Arg Ala Cys Arg Ser Thr Leu Val Asp Pro Lys Phe
 55 1 5 10 15
 Glu Thr Ile Val Glu Gln Ala Pro Leu Ala Ile Glu Asp Leu Leu Asn
 20 25 30
 Glu Leu Asp Thr Gln Asp Glu Glu Val Ala Ser Asp Ser Asp Glu Ser
 35 40 45
 60 Ser Glu Gly Gly Glu Arg Gly Asp Ala Leu Ser Gln Lys Arg Ser Glu
 50 55 60
 Lys Pro Pro Ala Gly Ser Ile Cys Arg Ala Glu Pro Glu Ala Gly Glu
 65 70 75 80

Glu Gln Ala Gly Asp Asp Arg Asp Ser Gly Gly Pro Val Leu Gln Phe
 85 90 95
 Asp Tyr Glu Ala Val Ala Asn Arg Leu Phe Glu Met Ala Ser Arg Gln
 100 105 110
 5 Ser Thr Pro Ser Gln Asn Arg Lys Arg Leu Tyr Lys Val Ile Arg Lys
 115 120 125
 Leu Gln Asp Leu Ala Gly Gly Ile Phe Pro Glu Asp Glu Ile Pro Glu
 130 135 140
 10 Lys Ala Cys Arg Arg Leu Leu Glu Gly Arg Arg Gln Lys Lys Thr Lys
 145 150 155 160
 Lys Gln Lys Arg Leu Arg Leu Gln Gln Glu Arg Gly Lys Gly Glu
 165 170 175
 Lys Glu Pro Pro Ser Pro Gly Met Glu Arg Lys Arg Ser Arg Arg Arg
 180 185 190
 15 Gly Val Gly Ala Arg Pro Arg Gly Ala Gly Arg Gly Trp
 195 200 205

<210> 1028
 <211> 161
 20 <212> PRT
 <213> Homo sapiens

<400> 1028
 Ala Gly Pro Ala Ser Glu Ile Ser Pro Xaa Ala Arg Gly Gln Lys Xaa
 1 5 10 15
 Ala Arg Gln Xaa Arg Xaa Thr Pro Ser Ala Pro Asp Gln Cys Pro Ser
 20 25 30
 Lys Gly Gly Gln Cys Pro Gly Ala Gly Glu Glu Glu Thr Gln Gly
 35 40 45
 30 Val Met Trp Pro Gly Gln Gly Gln Ala Gly Arg Glu Ala Arg Pro Arg
 50 55 60
 Leu Xaa Arg Gly Xaa Arg Leu Thr Gly Leu Xaa Cys Arg Leu Arg Xaa
 65 70 75 80
 Val Ala Pro Glu Leu Leu Cys Gln Ala Gly Gly Lys Gly Gly Thr Gly
 85 90 95
 35 Glu Met Gly Pro Ser Leu Gly Ala Ser Ile Pro Gly Thr Gly Pro Phe
 100 105 110
 Pro Arg Ala Ser Ala Cys Gly Cys Asp Asp Leu Gly Pro Glu Gly Gln
 115 120 125
 40 Thr Pro Lys Thr Glu Thr Leu Pro Ala Ala Gly Leu Ala Ala Pro Ala
 130 135 140
 Val Gly Gly Ser Glu Asn Lys Met Pro Arg Ser Pro Cys Gln Gly Ser
 145 150 155 160
 Val

<210> 1029
 <211> 301
 <212> PRT
 50 <213> Homo sapiens

<400> 1029
 Trp Ala His Leu Ser Ser Ala Ala Leu Pro Ser Arg Leu Ala Gln Glu
 1 5 10 15
 55 Phe Trp Ser His Xaa Pro Glu Ser Thr Xaa Gln Pro Gly Gln Pro Xaa
 20 25 30
 Pro Ala Xaa Gln Ala Arg Pro Gly Leu Pro Pro Cys Leu Ser Leu Ala
 35 40 45
 Arg Pro His His Ser Leu Arg Phe Phe Phe Phe Ser Gly Ser Trp Thr
 50 55 60
 60 Leu Ala Ala Phe Ala Arg Ala Leu Val Arg Gly Arg Arg Cys Xaa Pro
 65 70 75 80
 Xaa Leu Ala Ser Xaa Phe Leu Ala Thr Gly Xaa Trp Ala Asp Leu Gly

					85						90						95
	Ser	Arg	Ala	Arg	Ser	Ala	Val	Pro	Xaa	Cys	Ser	Pro	Ala	Ser	Ala	Arg	
				100					105					110			
5	Ala	Ser	Gly	Ser	Gly	Pro	Tyr	Thr	Pro	Pro	Pro	Ala	Pro	Leu	Pro	Leu	
			115					120					125				
	His	Ala	Arg	Ala	Arg	Gly	Leu	Leu	Leu	Thr	Phe	Pro	Ser	Leu	Leu	Leu	
			130				135					140					
	Gln	Pro	Glu	Gln	Thr	Leu	Leu	Leu	Leu	Arg	Leu	Leu	Leu	Pro	Pro	Pro	
			145			150					155					160	
10	Phe	Lys	Gln	Ala	Pro	Ala	Gly	Leu	Leu	Trp	Asp	Leu	Ile	Phe	Arg	Glu	
				165						170					175		
	Asn	Ala	Ser	Cys	Gln	Val	Leu	Gln	Leu	Pro	Asp	His	Phe	Val	Glu	Thr	
				180					185					190			
	Leu	Ser	Val	Leu	Arg	Arg	Gly	Ala	Leu	Ala	Ala	Gly	His	Phe	Lys	Gln	
			195				200					205					
15	Ser	Val	Ser	Asn	Cys	Leu	Val	Val	Lys	Leu	Glu	Asn	Gly	Ala	Ala	Thr	
		210				215						220					
	Val	Pro	Val	Val	Thr	Cys	Leu	Leu	Leu	Thr	Ser	Leu	Arg	Phe	Ser	Pro	
					230						235					240	
20	Ala	Asp	Gly	Ala	Cys	Gly	Arg	Leu	Leu	Arg	Pro	Leu	Leu	Gly	Gln	Arg	
				245						250					255		
	Val	Ser	Thr	Leu	Thr	Thr	Leu	Arg	Gly	Leu	Ile	Thr	Val	Arg	Arg	His	
			260						265					270			
	Leu	Leu	Ile	Leu	Cys	Val	Gln	Phe	Ile	Gln	Glu	Val	Phe	Asn	Gly	Lys	
			275				280						285				
25	Arg	Gly	Leu	Leu	His	Asn	Arg	Leu	Lys	Leu	Trp	Ile	His				
		290				295						300					
	<210>	1030															
30	<211>	216															
	<212>	PRT															
	<213>	Homo sapiens															
	<400>	1030															
35	Pro	Ser	Gly	Pro	Arg	Ser	Ser	Gln	Pro	Gln	Ala	Glu	Ala	Leu	Gly	Lys	
	1			5					10					15			
	Gly	Pro	Val	Pro	Gly	Met	Leu	Ala	Pro	Asn	Asp	Gly	Pro	Ile	Ser	Pro	
				20					25					30			
40	Val	Pro	Pro	Phe	Pro	Pro	Ala	Trp	His	Arg	Ser	Ser	Gly	Ala	Thr	Xaa	
		35					40						45				
	Leu	Ser	Leu	Xaa	Asn	Ser	Pro	Val	Ser	Leu	Xaa	Pro	Arg	Xaa	Lys	Arg	
		50				55						60					
	Gly	Leu	Ala	Ser	Leu	Pro	Ala	Cys	Pro	Trp	Pro	Gly	His				

<210> 1031
 <211> 190
 <212> PRT
 <213> Homo sapiens

5

<400> 1031

Phe Glu Thr Ile Val Glu Gln Ala Pro Leu Ala Ile Glu Asp Leu Leu
 1 5 10 15
 Asn Glu Leu Asp Thr Gln Asp Glu Glu Val Ala Ser Asp Ser Asp Glu
 10 20 25 30
 Ser Ser Glu Gly Gly Glu Arg Gly Asp Ala Leu Ser Gln Lys Arg Ser
 35 40 45
 Glu Lys Pro Pro Ala Gly Ser Ile Cys Arg Ala Glu Pro Glu Ala Gly
 50 55 60
 Glu Glu Gln Ala Gly Asp Asp Arg Asp Ser Gly Gly Pro Val Leu Gln
 15 65 70 75 80
 Phe Asp Tyr Glu Ala Val Ala Asn Arg Leu Phe Glu Met Ala Ser Arg
 85 90 95
 Gln Ser Thr Pro Ser Gln Asn Arg Lys Arg Leu Tyr Lys Val Ile Arg
 20 100 105 110
 Lys Leu Gln Asp Leu Ala Gly Gly Ile Phe Pro Glu Asp Glu Ile Pro
 115 120 125
 Glu Lys Ala Cys Arg Arg Leu Leu Glu Gly Arg Arg Gln Lys Lys Thr
 130 135 140
 Lys Lys Gln Lys Arg Leu Leu Arg Leu Gln Gln Glu Arg Gly Lys Gly
 25 145 150 155 160
 Glu Lys Glu Pro Pro Ser Pro Gly Met Glu Arg Lys Arg Ser Arg Arg
 165 170 175
 Arg Gly Val Gly Ala Arg Pro Arg Gly Ala Gly Arg Gly Trp
 30 180 185 190

<210> 1032
 <211> 124
 <212> PRT
 <213> Homo sapiens

35

<400> 1032

Ala Phe Trp Leu Gly His Trp Ser Gly Ala Glu Gly Val Xaa Leu Xaa
 1 5 10 15
 Trp Arg Ala Xaa Phe Trp Pro Arg Ala Xaa Gly Leu Ile Ser Glu Ala
 40 20 25 30
 Gly Pro Ala Gln Leu Cys Leu Xaa Ala His Gln Pro Leu Pro Ala Pro
 35 40 45
 Arg Gly Arg Ala Pro Thr Pro Leu Leu Leu Leu Phe Leu Ser Met
 45 50 55 60
 Pro Gly Leu Gly Gly Ser Phe Ser Pro Phe Pro Leu Ser Cys Cys Asn
 65 70 75 80
 Leu Ser Arg Arg Phe Cys Phe Phe Val Phe Phe Cys Arg Leu Pro Ser
 85 90 95
 Ser Arg Arg Leu Gln Ala Phe Ser Gly Ile Ser Ser Ser Gly Lys Met
 50 100 105 110
 Pro Pro Ala Arg Ser Cys Ser Phe Arg Ile Thr Leu
 115 120

55

<210> 1033
 <211> 231
 <212> PRT
 <213> Homo sapiens

60

<400> 1033

Leu Leu Ala Arg Ala Leu Val Arg Gly Arg Arg Cys Xaa Pro Xaa Leu
 1 5 10 15
 Ala Ser Xaa Phe Leu Ala Thr Gly Xaa Trp Ala Asp Leu Gly Ser Arg

20 25 30
 Ala Arg Ser Ala Val Pro Xaa Cys Ser Pro Ala Ser Ala Arg Ala Ser
 35 40 45
 Gly Ser Gly Pro Tyr Thr Pro Pro Pro Ala Pro Leu Pro Leu His Ala
 5 50 55 60
 Arg Ala Arg Gly Leu Leu Leu Thr Phe Pro Ser Leu Leu Leu Gln Pro
 65 70 75 80
 Glu Gln Thr Leu Leu Leu Arg Leu Leu Leu Pro Pro Pro Phe Lys
 85 90 95
 10 Gln Ala Pro Ala Gly Leu Leu Trp Asp Leu Ile Phe Arg Glu Asn Ala
 100 105 110
 Ser Cys Gln Val Leu Gln Leu Pro Asp His Phe Val Glu Thr Leu Ser
 115 120 125
 Val Leu Arg Arg Gly Ala Leu Ala Ala Gly His Phe Lys Gln Ser Val
 15 130 135 140
 Ser Asn Cys Leu Val Val Lys Leu Glu Asn Gly Ala Ala Thr Val Pro
 145 150 155 160
 Val Val Thr Cys Leu Leu Leu Thr Ser Leu Arg Phe Ser Pro Ala Asp
 165 170 175
 20 Gly Ala Cys Gly Arg Leu Leu Arg Pro Leu Leu Gly Gln Arg Val Ser
 180 185 190
 Thr Leu Thr Thr Leu Arg Gly Leu Ile Thr Val Arg Arg His Leu Leu
 195 200 205
 Ile Leu Cys Val Gln Phe Ile Gln Glu Val Phe Asn Gly Lys Arg Gly
 25 210 215 220
 Leu Leu His Asn Arg Leu Lys
 225 230

30 <210> 1034
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1034
 35 Trp Ala His Leu Ser Ser Ala Ala Leu Pro Ser Arg Leu Ala Gln Glu
 1 5 10 15
 Phe Trp Ser His Xaa Pro Glu Ser Thr Xaa Gln Pro Gly Gln Pro Xaa
 20 25 30
 Pro Ala Xaa Gln Ala Arg Pro Gly Leu Pro Pro Cys Leu Ser Leu Ala
 40 35 40 45
 Arg Pro His His Ser Leu Arg Phe Phe Phe Phe Ser Gly Ser Trp Thr
 50 55 60
 Leu Ala Ala Phe Ala Arg Ala Leu Val Arg Gly Arg Gly Val Leu Leu
 65 70 75 80
 45 Leu Leu Ala Ser Pro Ser Leu Ala Thr Ala Pro Gly Leu Ile Ser Glu
 85 90 95
 Gln Gly Pro Leu Xaa Cys Ala Trp Leu Phe Thr Lys Pro Xaa Ala Arg
 100 105 110
 Ala Ser Gly Val Gly Pro Leu Thr Pro Leu Pro Pro Gly Tyr Xaa Phe
 50 115 120 125
 Pro Leu His Ala Pro Gly Leu Arg Gly Gly Xaa Leu Phe Xaa Pro Phe
 130 135 140
 Xaa Phe Phe Ser Leu
 145

55 <210> 1035
 <211> 126
 <212> PRT
 <213> Homo sapiens

60 <400> 1035
 Val Tyr Xaa Thr Ala Arg Ser Ala Xaa Ser Arg Xaa Ala Ser Glu Ala
 1 5 10 15

Trp Pro Pro Ser Leu Pro Val Leu Gly Pro Ala Thr Ser Leu Pro Ala
 20 25 30
 Phe Leu Leu Leu Leu Arg Leu Leu Asp Ile Gly Arg Leu Cys Ser Gly
 35 40 45
 5 Thr Gly Gln Gly Pro Arg Cys Pro Pro Ser Ser Gly Glu Pro Leu Phe
 50 55 60
 Gly His Gly Pro Trp Ala Asp Leu Gly Ala Gly Pro Ala Xaa Leu Cys
 65 70 75 80
 Leu Ala Val His Gln Thr Xaa Cys Pro Arg Leu Gly Gly Arg Ala Pro
 10 85 90 95
 Asn Thr Pro Ser Ser Trp Val Pro Xaa Ser Ser Ser Cys Pro Gly Ala
 100 105 110
 Ser Gly Gly Pro Xaa Phe Xaa Pro Phe Xaa Leu Phe Phe Pro
 115 120 125

15

<210> 1036
 <211> 179
 <212> PRT
 <213> Homo sapiens

20

<400> 1036
 Gly Pro Asp Pro Arg Gly Ala Gly Xaa Arg Phe Gly Glu Gln Pro Gly
 1 5 10 15
 Thr Xaa Glu Arg Ala Leu Leu Arg Asp Gln Pro Arg Gly Arg Gly Gln
 25 20 25 30
 Arg Gly Ala Arg Gln Lys Lys Glu Asp Thr Ser Ala Pro Asp Gln Cys
 35 40 45
 Pro Ser Lys Gly Gly Gln Cys Pro Gly Ala Gly Glu Glu Glu Thr
 50 55 60
 30 Gln Gly Val Met Trp Pro Gly Gln Gly Gln Ala Gly Arg Glu Ala Arg
 65 70 75 80
 Pro Arg Leu Xaa Arg Gly Xaa Arg Leu Thr Gly Leu Xaa Cys Arg Leu
 85 90 95
 Arg Xaa Val Ala Pro Glu Leu Leu Cys Gln Ala Gly Gly Lys Gly Gly
 35 100 105 110
 Thr Gly Glu Met Gly Pro Ser Leu Gly Ala Ser Ile Pro Gly Thr Gly
 115 120 125
 Pro Phe Pro Arg Ala Ser Ala Cys Gly Cys Asp Asp Leu Gly Pro Glu
 130 135 140
 40 Gly Gln Thr Pro Lys Thr Glu Thr Leu Pro Ala Ala Gly Leu Ala Ala
 145 150 155 160
 Pro Ala Val Gly Gly Ser Glu Asn Lys Met Pro Arg Ser Pro Cys Gln
 165 170 175
 Gly Ser Val

45

<210> 1037
 <211> 156
 <212> PRT
 <213> Homo sapiens

50

<400> 1037
 Ser Glu Glu Thr Leu Pro Lys Ala Asn Pro Asp Ser Leu Glu Pro Ala
 1 5 10 15
 55 Gly Pro Ser Ser Pro Ala Ser Val Thr Val Thr Val Gly Asp Glu Gly
 20 25 30
 Ala Asp Thr Pro Val Gly Ala Thr Pro Leu Ile Gly Asp Glu Ser Glu
 35 40 45
 Asn Leu Glu Gly Asp Gly Asp Leu Arg Gly Gly Arg Ile Leu Leu Gly
 60 50 55 60
 His Ala Thr Lys Ser Phe Pro Ser Ser Pro Ser Lys Gly Gly Ser Cys
 65 70 75 80
 Pro Ser Arg Ala Lys Met Ser Met Thr Gly Ala Gly Lys Ser Pro Pro

85 90 95
 Ser Val Gln Ser Leu Ala Met Arg Leu Leu Ser Met Pro Gly Ala Gln
 100 105 110
 Gly Ala Ala Ala Ala Gly Ser Glu Pro Pro Pro Ala Thr Thr Ser Pro
 115 120 125
 5 Glu Gly Gln Pro Lys Val His Arg Ala Arg Lys Thr Met Ser Lys Pro
 130 135 140
 Gly Asn Gly Gln Val Ser Gly Met Gly Glu Met Gly
 145 150 155
 10
 <210> 1038
 <211> 169
 <212> PRT
 <213> Homo sapiens
 15
 <400> 1038
 Asn Cys Lys Arg Ala His Gln Arg Phe Met Val Asp Tyr Pro Ile Ser
 1 5 10 15
 20 Pro Ile Pro Leu Thr Cys Pro Phe Pro Gly Leu Asp Met Val Leu Arg
 20 25 30
 Ala Arg Trp Thr Leu Gly Cys Pro Ser Gly Leu Val Val Ala Gly Gly
 35 40 45
 Gly Ser Asp Pro Ala Ala Ala Pro Trp Ala Pro Gly Ile Leu Ser
 50 55 60
 25 Ser Leu Ile Ala Lys Leu Trp Thr Asp Gly Gly Asp Phe Pro Ala Pro
 65 70 75 80
 Val Ile Asp Ile Leu Ala Arg Leu Gly Gln Glu Pro Pro Leu Leu Gly
 85 90 95
 Glu Glu Gly Asn Asp Phe Val Ala Trp Pro Ser Arg Ile Arg Pro Pro
 100 105 110
 30 Arg Arg Ser Pro Ser Pro Ser Arg Phe Ser Asp Ser Ser Pro Met Ser
 115 120 125
 Gly Val Ala Pro Thr Gly Val Ser Ala Pro Ser Ser Pro Thr Val Thr
 130 135 140
 35 Val Thr Glu Ala Gly Asp Glu Gly Pro Ala Gly Ser Arg Glu Ser Gly
 145 150 155 160
 Leu Ala Leu Gly Arg Val Ser Ser Leu
 165
 40
 <210> 1039
 <211> 67
 <212> PRT
 <213> Homo sapiens
 45
 <400> 1039
 Gly Asn Gly Met Glu Lys Met Glu Tyr Pro Pro Xaa Asn Xaa Leu Xaa
 1 5 10 15
 Xaa Phe Phe Thr Val Xaa Leu Lys Gly Phe Tyr Ser Ile Tyr Ser Xaa
 20 25 30
 50 Pro Ile Phe Lys Xaa Arg Xaa Cys Cys Val Ser Lys Ile Xaa Leu Xaa
 35 40 45
 Leu Xaa Leu Glu Pro Thr Thr Gly Xaa Xaa Phe Leu Gln Val Tyr Ile
 50 55 60
 Xaa Gly Trp
 55 65
 <210> 1040
 <211> 70
 <212> PRT
 60 <213> Homo sapiens
 <400> 1040
 Gly Ser Phe Gln Ser Arg Ala Asn Ser Tyr Ala Val Cys Pro Glu Ser

1 5 10 15
 Ala Cys Phe Phe Ser Ile Ser Ser Arg His Pro Ile Phe Phe Ser Phe
 20 25 30
 5 Lys Asn Leu Leu Val Gly Trp Leu Trp Trp Leu Ala Pro Val Ile Pro
 35 40 45
 Ala Leu Cys Glu Val Lys Ala Gly Arg Leu Leu Lys Pro Ser Ser Leu
 50 55 60
 Arg Pro Ala Trp Ala Thr
 65 70
 10
 <210> 1041
 <211> 50
 <212> PRT
 <213> Homo sapiens
 15
 <400> 1041
 Arg Ile Glu Glu Asp Asn Leu Thr Tyr Gln His Leu Leu Pro Glu Ser
 1 5 10 15
 Pro Glu Pro Ser Ala Ser His Ala Leu Ser Asp Tyr Glu Thr Ser Glu
 20 20 25 30
 Lys Ser Phe Phe Ser Arg Asp Gln Lys Gln Asp Asn Glu Thr Glu Lys
 35 40 45
 Thr Ser
 50
 25
 <210> 1042
 <211> 121
 <212> PRT
 <213> Homo sapiens
 30
 <400> 1042
 Val Met Val Asn Ser Phe Ser Gln Asp Leu Leu Met Glu His Ile Gln
 1 5 10 15
 Glu Ile Arg Thr Leu Arg Lys Arg Leu Glu Glu Ser Ile Lys Thr Asn
 35 20 25 30
 Glu Lys Leu Arg Lys Gln Leu Glu Arg Gln Gly Ser Glu Phe Val Gln
 35 40 45
 Gly Ser Thr Ser Ile Phe Ala Ser Gly Ser Glu Leu His Ser Ser Leu
 50 55 60
 40 Thr Ser Glu Ile His Phe Leu Arg Lys Gln Asn Gln Ala Leu Asn Ala
 65 70 75 80
 Met Leu Ile Lys Gly Ser Arg Asp Lys Gln Lys Glu Asn Asp Lys Leu
 85 90 95
 Arg Glu Ser Leu Ser Arg Lys Thr Val Ser Leu Glu His Leu Gln Arg
 45 100 105 110
 Glu Tyr Ala Ser Arg Glu Gly Arg Lys
 115 120
 50
 <210> 1043
 <211> 148
 <212> PRT
 <213> Homo sapiens
 55
 <400> 1043
 Cys Pro Ser Cys Xaa Leu Asn Leu Val Phe Gln Lys Gly Xaa Gly Phe
 1 5 10 15
 Gln Arg Pro Leu Ser Xaa Xaa Gln Ala Gln Xaa Pro Gly Phe Pro Xaa
 20 25 30
 Gln Lys Ala Xaa Pro Gly Xaa Xaa Lys Asp Pro Ala Pro Phe Lys Pro
 35 40 45
 60 Xaa Ser Xaa Arg Xaa Phe Gln Val Ser Xaa Xaa Phe Xaa Pro Ser Phe
 50 55 60
 Ser Tyr Ala Phe Ser Ser Thr Xaa Lys Asp Cys Lys Ser Leu Ser Phe
 397

[illegible]

```

15      - <210> 1044
        <211> 160
        <212> PRT
        <213> Homo sapiens

```

	<400> 1044															
20	Pro	Lys	Leu	Ser	Xaa	Lys	Pro	Cys	Phe	Pro	Lys	Gly	Xaa	Arg	Val	Ser
	1				5					10					15	
	Lys	Ala	Pro	Phe	Xaa	Xaa	Pro	Ser	Pro	Xaa	Ala	Trp	Phe	Ser	Xaa	Pro
				20					25					30		
	Glu	Gly	Xaa	Ala	Arg	Ser	Xaa	Lys	Gly	Ser	Cys	Pro	Phe	Gln	Ala	Phe
			35					40					45			
25	Xaa	Xaa	Thr	Pro	Xaa	Ser	Ser	Phe	Leu	Xaa	Phe	Ser	Xaa	Gln	Leu	Phe
	50						55					60				
	Ile	Arg	Leu	Gln	Leu	His	Ser	Xaa	Arg	Leu	Gln	Lys	Leu	Val	Ile	Leu
	65					70					75				80	
	Xaa	Ser	Ser	Cys	Cys	Leu	Asn	Phe	Ser	Ser	Ser	Cys	Thr	Xaa	Ser	Xaa
30					85					90					95	
	Pro	Gly	Arg	Cys	Ser	Gly	Xaa	Xaa	Gly	Ser	Ala	Ala	Gly	Trp	Ser	Leu
				100					105					110		
	Leu	Leu	Ala	Ala	Phe	Phe	Leu	Gln	Pro	Phe	Ile	Phe	Phe	Leu	His	Gly
			115					120					125			
35	Trp	His	Thr	Pro	Ala	Glu	Gly	Ala	Pro	Gly	Ser	Arg	Ser	Ser	Trp	Arg
	130						135					140				
	Gly	Thr	Leu	Val	Ile	Cys	His	Ser	Pro	Ser	Val	Tyr	Leu	Trp	Ile	Leu
	145					150					155					160

```
40          <210> 1045
           <211> 143
           <212> PRT
           <213> Homo sapiens
```

45	<400> 1045															
	Asn	Asp	Ile	Gln	Thr	Gln	Glu	Ala	Pro	Ser	Ser	Thr	Ser	Gln	Glu	Leu
	1				5					10					15	
	Gly	Thr	Lys	Gly	Pro	His	Pro	Ala	Pro	Leu	Ser	Lys	Phe	Val	Ser	Ser
				20					25					30		
50	Val	Ser	Thr	Ala	Lys	Leu	Thr	Leu	Glu	Glu	Ala	Tyr	Arg	Arg	Leu	Lys
			35					40					45			
	Leu	Xaa	Trp	Arg	Val	Ser	Leu	Pro	Glu	Asp	Gly	Gln	Cys	Pro	Leu	His
	50						55					60				
	Cys	Glu	Gln	Ile	Gly	Glu	Met	Lys	Ala	Glu	Val	Thr	Lys	Leu	His	Lys
55	65					70					75					80
	Lys	Leu	Phe	Glu	Gln	Glu	Lys	Lys	Leu	Gln	Asn	Thr	Met	Lys	Leu	Leu
					85					90					95	
	Gln	Leu	Ser	Lys	Arg	Gln	Glu	Lys	Val	Ile	Phe	Asp	Gln	Leu	Val	Val
				100					105					110		
60	Thr	His	Lys	Ile	Leu	Arg	Lys	Ala	Arg	Gly	Asn	Leu	Glu	Leu	Arg	Pro
			115					120					125			
	Gly	Gly	Ala	His	Pro	Gly	Thr	Cys	Ser	Pro	Ser	Arg	Pro	Gly	Ser	
	130						135					140				

<210> 1046
 <211> 103
 <212> PRT
 5 <213> Homo sapiens

<400> 1046
 Met Ser Phe Gln Gln Gly Ala Ser Ala Leu Ala Asp Leu Phe Glu Gln
 1 5 10 15
 10 Gly Leu Ile Val Leu Asn Xaa Ala Xaa Asp Met Ala Ala Phe Leu Leu
 20 25 30
 Ala His Arg Trp Trp Xaa Xaa Pro Gly Gly Thr His Thr Gly Val Leu
 35 40 45
 15 Ile Gly Arg Thr Ala Thr Val Xaa Glu Xaa Gly Val Arg Val Ile Pro
 50 55 60
 Lys Lys Trp Arg Ser Ser Glu Thr Xaa Phe Gly Val Xaa Gly Trp Xaa
 65 70 75 80
 Glu Xaa Asn Xaa Ile Lys Xaa Asn Xaa Leu Ser Met Gly Ile Phe Gly
 85 90 95
 20 Thr His Pro Val Cys Gln Gly
 100

<210> 1047
 <211> 178
 25 <212> PRT
 <213> Homo sapiens

<400> 1047
 Glu Asn Leu Lys Gln Gln Leu Glu Glu Gln Glu Tyr Lys Leu Gln Lys
 1 5 10 15
 30 Glu Gln Asn Leu Asn Met Gln Leu Phe Ser Glu Ile His Asn Leu Gln
 20 25 30
 Asn Lys Phe Arg Asp Leu Ser Pro Pro Arg Tyr Asp Ser Leu Val Gln
 35 35 40 45
 Ser Gln Ala Arg Glu Leu Ser Leu Gln Arg Gln Gln Ile Lys Asp Gly
 50 55 60
 His Gly Ile Cys Val Ile Ser Arg Gln His Met Asn Thr Met Ile Lys
 65 70 75 80
 Ala Phe Glu Glu Leu Leu Gln Ala Ser Asp Val Asp Tyr Cys Val Ala
 40 85 90 95
 Glu Gly Phe Gln Glu Gln Leu Asn Gln Cys Ala Glu Leu Leu Glu Lys
 100 105 110
 Leu Glu Lys Leu Phe Leu Asn Gly Lys Ser Val Gly Val Glu Met Asn
 115 120 125
 45 Thr Gln Asn Glu Leu Met Glu Arg Ile Glu Glu Asp Asn Leu Thr Tyr
 130 135 140
 Gln His Leu Leu Pro Glu Ser Pro Glu Pro Ser Ala Ser His Ala Leu
 145 150 155 160
 Ser Asp Tyr Glu Thr Ser Glu Lys Ser Phe Phe Ser Arg Asp Gln Lys
 50 165 170 175
 Pro Arg

<210> 1048
 55 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1048
 60 His Ser Asn Pro Arg Gly Ser Gln Leu His Lys Ser Arg Ala Gly Asn
 1 5 10 15
 Lys Gly Ser Thr Pro Ser Thr Ile Glu Gln Val Cys Glu Gln Cys Glu
 20 25 30

His Gly Gln Ala Asp Pro Gly Arg Gly Leu Gln Arg Leu Lys Leu Leu
 35 40 45
 Trp Arg Val Ser Leu Pro Glu Asp Gly Gln Cys Pro Leu His Cys Glu
 50 55 60
 5 Gln Ile Gly Glu Met Lys Ala Glu Val Thr Lys Leu His Lys Lys Leu
 65 70 75 80
 Phe Glu Gln Glu Lys Lys Leu Gln Asn Thr Met Lys Leu Leu Gln Leu
 85 90 95
 10 Ser Lys Arg Gln Glu Lys Val Ile Phe Asp Gln Leu Val Val Thr His
 100 105 110
 Lys Ile Leu Arg Lys Ala Arg Gly Asn Leu Glu Leu Arg Pro Gly Gly
 115 120 125
 Ala His Pro Gly Thr Cys Ser Pro Ser Arg Pro Gly Ser
 130 135 140
 15
 <210> 1049
 <211> 135
 <212> PRT
 <213> Homo sapiens
 20
 <400> 1049
 Ser Ser Ile Xaa Pro Lys Thr Trp Arg Pro Phe Leu Leu Ala His Lys
 1 5 10 15
 Val Val Ala Asn Asp Gln Xaa Gly His Thr Xaa Ser Ala Ser Cys Arg
 20 25 30
 25 Thr Ala Thr Val Xaa Arg Xaa Gly Asn Pro Cys His Phe Gln Lys Ser
 35 40 45
 Gly Gly Val Ser Glu Thr Glu Phe Xaa Xaa His Trp Pro Gly Arg Asn
 50 55 60
 30 Gln Xaa Asp Gln Met Xaa Tyr Pro Phe His Gly Xaa Ile Cys Xaa Ile
 65 70 75 80
 Xaa Phe Val Xaa Leu Lys Gly Xaa Leu Arg Asp Gly His Arg Leu Gly
 85 90 95
 Lys Pro Xaa Xaa Xaa Leu Xaa Leu Gly Leu Phe Xaa Pro Leu Ala Xaa
 100 105 110
 35 Val Leu Glu Pro Val Leu Lys Arg Xaa Xaa Phe Xaa Pro Xaa Leu Xaa
 115 120 125
 Ala Xaa Gln Thr Xaa Phe His
 130 135
 40
 <210> 1050
 <211> 218
 <212> PRT
 <213> Homo sapiens
 45
 <400> 1050
 Gly Val Pro Gly Trp Gln Ala Ala Leu Leu Ser Leu Pro Gly Ile Thr
 1 5 10 15
 Asn Arg Glu Ala Lys Lys Ser Arg Leu Pro Ile Leu Ile Lys Pro Ser
 20 25 30
 50 Arg Ser Leu Gly Asn Met Tyr Arg Leu Pro Ala Thr Gln Glu Val Val
 35 40 45
 Thr Gln Leu Gln Ser Gln Ile Leu Glu Leu Gln Gly Glu Leu Lys Glu
 50 55 60
 55 Phe Lys Thr Cys Asn Lys Gln Leu His Gln Lys Leu Ile Leu Ala Glu
 65 70 75 80
 Ala Val Met Glu Gly Arg Pro Thr Pro Asp Lys Thr Leu Leu Asn Ala
 85 90 95
 Gln Pro Pro Val Gly Ala Ala Tyr Gln Asp Ser Pro Gly Glu Gln Lys
 100 105 110
 60 Gly Ile Lys Thr Thr Ser Ser Val Trp Arg Asp Lys Glu Met Asp Ser
 115 120 125
 Asp Gln Gln Arg Ser Tyr Glu Ile Asp Ser Glu Ile Cys Pro Pro Asp
 130 135
 400

130 135 140
 Asp Leu Ala Ser Leu Pro Ser Cys Lys Glu Asn Pro Glu Asp Val Leu
 145 150 155 160
 Ser Pro Thr Ser Val Ala Thr Tyr Leu Ser Lys Ser Gln Pro Ser
 5 Ala Lys Val Ser Val Met Gly Thr Asp Gln Ser Glu Ser Ile Asn Thr
 180 185 190
 Ser Asn Glu Thr Glu Tyr Leu Lys Gln Lys Xaa His Asp Leu Gly Asn
 195 200 205
 10 Trp Asn Leu Xaa Arg Leu Pro Xaa Ile Ser
 210 215
 <210> 1051
 <211> 96
 15 <212> PRT
 <213> Homo sapiens
 <400> 1051
 Ser Xaa Xaa Trp Arg Val Ser Leu Pro Xaa Asp Gly Gln Cys Pro Xaa
 20 1 5 10 15
 Xaa Cys Glu Gln Ile Gly Glu Met Lys Ala Glu Val Xaa Lys Leu His
 20 25 30
 Lys Lys Leu Phe Glu Gln Glu Lys Lys Leu Gln Asn Xaa Met Lys Leu
 35 40 45
 25 Leu Gln Leu Ser Lys Arg Gln Glu Lys Val Ile Phe Asp Gln Leu Val
 50 55 60
 Val Thr His Lys Ile Leu Arg Lys Ala Arg Gly Asn Leu Glu Leu Arg
 65 70 75 80
 Pro Gly Gly Ala His Pro Gly Thr Cys Ser Pro Ser Arg Pro Gly Ser
 30 85 90 95
 <210> 1052
 <211> 106
 <212> PRT
 35 <213> Homo sapiens
 <400> 1052
 Ser Lys Met Thr Phe Ser Trp Arg Leu Leu Ser Cys Lys Ser Phe Met
 1 5 10 15
 40 Xaa Phe Cys Asn Phe Phe Ser Cys Ser Asn Asn Phe Leu Cys Ser Leu
 20 25 30
 Xaa Thr Ser Ala Phe Ile Ser Pro Ile Cys Ser Gln Xaa Xaa Gly His
 35 40 45
 Trp Pro Ser Xaa Gly Ser Glu Thr Leu Xaa Xaa Lys Leu Xaa Pro Ala
 45 50 55 60
 Val Xaa Pro Xaa Xaa Arg Val Ser Trp Ala Gly Ser His Xaa Leu Gln
 65 70 75 80
 Thr Cys Leu Xaa Xaa Ala Xaa Xaa Xaa Ala Leu Trp Phe Gln Xaa Leu
 85 90 95
 50 Thr Leu Xaa Asn Trp Xaa Pro Phe Trp Gly
 100 105
 <210> 1053
 <211> 219
 55 <212> PRT
 <213> Homo sapiens
 <400> 1053
 Cys Leu Asp Phe Ser Lys Ala Asp Ser Gly Val His Leu Cys Val Ile
 60 1 5 10 15
 Asp Asp Ser Asn Glu His Met Leu Thr Val Trp Asp Trp Gln Arg Lys
 20 25 30
 Ala Lys Gly Ala Glu Ile Lys Thr Thr Asn Glu Val Val Leu Ala Val

35 40 45
 Glu Phe His Pro Thr Asp Ala Asn Thr Ile Ile Thr Cys Gly Lys Ser
 50 55 60
 His Ile Phe Phe Trp Thr Trp Ser Gly Asn Ser Leu Thr Arg Lys Gln
 5 65 70 75 80
 Gly Ile Phe Gly Lys Tyr Glu Lys Pro Lys Phe Val Gln Cys Leu Ala
 85 90 95
 Phe Leu Gly Asn Gly Asp Val Leu Thr Gly Asp Ser Gly Gly Val Met
 100 105 110
 10 Leu Ile Trp Ser Lys Thr Thr Val Glu Pro Thr Pro Gly Lys Gly Pro
 115 120 125
 Lys Gly Val Tyr Gln Ile Ser Lys Gln Ile Lys Ala His Asp Gly Ser
 130 135 140
 Val Phe Thr Leu Cys Gln Met Arg Asn Gly Met Leu Leu Thr Gly Gly
 15 145 150 155 160
 Gly Lys Asp Arg Lys Ile Ile Leu Trp Asp His Asp Leu Asn Pro Glu
 165 170 175
 Arg Glu Ile Glu Gly Pro Asp Gln Tyr Gly Thr Ile Arg Ala Val Ala
 180 185 190
 20 Glu Gly Lys Gly Arg Ser Ile Phe Ser Arg Pro His His Arg Asn Phe
 195 200 205
 Ile Leu Arg Xaa Asn His Phe Asn Asp Gly Leu
 210 215

 25 <210> 1054
 <211> 126
 <212> PRT
 <213> Homo sapiens

 30 <400> 1054
 Pro Arg Xaa Phe Ser Thr Xaa Xaa Phe Pro Pro Leu Tyr Glu Arg Phe
 1 5 10 15
 Gly Val Cys Leu Lys Gly Gln Gly Asn Pro Leu Trp Val Xaa Xaa Asn
 20 25 30
 35 Lys Lys Ile Cys Pro Pro Leu Lys Ile Xaa Arg Xaa Ile Ser Tyr Gly
 35 40 45
 Glu Lys Xaa Ser Glu Ile Leu Pro Phe Gly Xaa His Leu Leu Lys Thr
 50 55 60
 Xaa Lys Ile Val Xaa Phe Lys Xaa Xaa Xaa Asp Ser Lys His Pro Ile
 40 65 70 75 80
 Phe Leu Gln Tyr Val Cys Ser Val His Thr Tyr Arg Ser Ala Pro Val
 85 90 95
 Ser Ile Arg His Ile Tyr Leu Ser Val Ser Asn Asp Tyr Tyr Ile Ile
 100 105 110
 45 Arg Ser Ala Cys Ala Ile Leu Pro Ala Arg Asn Ile Leu Thr
 115 120 125

 <210> 1055
 <211> 72
 50 <212> PRT
 <213> Homo sapiens

 <400> 1055
 Lys Asn Met Pro Pro Val Lys Asn Xaa Gln Gly Xaa Leu Leu Trp Gly
 55 1 5 10 15
 Lys Xaa Ile Gly Asn Pro Ser Leu Trp Xaa Xaa Pro Val Lys Asn Xaa
 20 25 30
 Gln Asn Ser Xaa Phe Gln Xaa Xaa Xaa Arg Phe Gln Ala Pro His Leu
 35 40 45
 60 Ser Ser Val Cys Met Phe Cys Thr Tyr Leu Ser Glu Arg Ala Ser Lys
 50 55 60
 Tyr Gln Ala Tyr Ile Ser Val Cys
 65 70

<210> 1056
 <211> 206
 <212> PRT
 5 <213> Homo sapiens

 <400> 1056
 Met Leu Leu Thr Gly Gly Gly Lys Asp Arg Lys Ile Ile Leu Trp Asp
 1 5 10 15
 10 His Asp Leu Asn Pro Glu Arg Glu Ile Glu Val Pro Asp Gln Tyr Gly
 20 25 30
 Thr Ile Arg Ala Val Ala Glu Gly Lys Ala Asp Gln Phe Leu Val Gly
 35 40 45
 15 Thr Ser Arg Asn Phe Ile Leu Arg Gly Thr Phe Asn Asp Gly Phe Gln
 50 55 60
 Ile Glu Val Gln Gly His Thr Asp Glu Leu Trp Gly Leu Ala Thr His
 65 70 75 80
 Pro Phe Lys Asp Leu Leu Thr Cys Ala Gln Asp Arg Gln Val Cys
 85 90 95
 20 Leu Trp Asn Ser Met Glu His Xaa Leu Glu Trp Thr Arg Leu Val Asp
 100 105 110
 Glu Pro Gly His Cys Ala Asp Phe His Pro Ser Gly Thr Val Val Ala
 115 120 125
 25 Ile Gly Thr His Ser Gly Arg Trp Phe Val Leu Asp Ala Glu Thr Arg
 130 135 140
 Asp Leu Val Ser Ile His Thr Asp Gly Asn Glu Gln Leu Ser Val Met
 145 150 155 160
 Arg Tyr Ser Ile Asp Gly Thr Phe Leu Ala Val Gly Ser His Asp Asn
 165 170 175
 30 Phe Ile Tyr Leu Tyr Val Val Ser Glu Asn Gly Arg Lys Xaa Ser Arg
 180 185 190
 Tyr Gly Arg Xaa Thr Gly His Ser Ser Tyr Ile Thr His Xaa
 195 200 205

 35 <210> 1057
 <211> 70
 <212> PRT
 <213> Homo sapiens

 40 <400> 1057
 Glu Asp Met Xaa His Val Glu Xaa Leu Ser Glu Ile Ser Met Xaa Ile
 1 5 10 15
 Gly Xaa Xaa Xaa Leu Pro Phe Gly Xaa Gln Leu Leu Lys Thr Leu Lys
 20 25 30
 45 Ile Val Leu Phe Lys Arg Arg Glu Ile Pro Ser Asn Pro Ser Phe Phe
 35 40 45
 Ser Met Tyr Val Leu Thr Tyr Leu Ser Glu Arg Ala Ser Lys Tyr Gln
 50 55 60
 Ala Tyr Ile Ser Val Cys
 65 70

 <210> 1058
 <211> 99
 <212> PRT
 55 <213> Homo sapiens

 <400> 1058
 Tyr Leu Leu Ala Arg Ser Asp Lys Tyr Val Arg Thr Tyr Ile Leu Lys
 1 5 10 15
 60 Lys Asp Gly Leu Leu Gly Ile Ser Leu Leu Leu Lys Arg Thr Ile Leu
 20 25 30
 Arg Val Phe Asn Ser Cys Xaa Pro Lys Gly Arg Xaa Xaa Asp Pro Ile
 35 40 45

Xaa Ile Glu Ile Ser Leu Ser Xaa Ser Thr Trp Xaa Ile Ser Ser Tyr
 50 55 60
 Leu Lys Lys His Thr Val Phe Ser Leu Xaa Pro Leu Asn Thr Pro Thr
 65 70 75 80
 5 Pro Phe His Tyr Xaa Gly Xaa Lys Xaa Met Val Xaa Asn Xaa Pro Trp
 85 90 95
 Glu Val Thr

10 <210> 1059
 <211> 219
 <212> PRT
 <213> Homo sapiens

15 <400> 1059
 Phe Leu Gln Pro Leu Gln Pro His Val Arg Val Trp Asp Ser Val Thr
 1 5 10 15
 Leu Ser Thr Leu Gln Ile Ile Gly Leu Gly Thr Phe Glu Arg Gly Val
 20 25 30
 20 Gly Cys Leu Asp Phe Ser Lys Ala Asp Ser Gly Val His Leu Cys Val
 35 40 45
 Ile Asp Asp Ser Asn Glu His Met Leu Thr Val Trp Asp Trp Gln Arg
 50 55 60
 Lys Ala Lys Gly Ala Glu Ile Lys Thr Thr Asn Glu Val Val Leu Ala
 25 65 70 75 80
 Val Glu Phe His Pro Thr Asp Ala Asn Thr Ile Ile Thr Cys Gly Lys
 85 90 95
 Ser His Ile Phe Phe Trp Thr Trp Ser Gly Asn Ser Leu Thr Arg Lys
 100 105 110
 30 Gln Gly Ile Phe Gly Lys Tyr Glu Lys Pro Lys Phe Val Gln Cys Leu
 115 120 125
 Ala Phe Leu Gly Asn Gly Asp Val Leu Thr Gly Asp Ser Gly Gly Val
 130 135 140
 Met Leu Ile Trp Ser Lys Thr Thr Val Glu Pro Thr Pro Gly Lys Gly
 35 145 150 155 160
 Pro Lys Gly Val Tyr Gln Ile Ser Lys Gln Ile Lys Ala His Asp Gly
 165 170 175
 Ser Val Phe Thr Leu Cys Gln Met Arg Asn Gly Met Leu Leu Thr Gly
 180 185 190
 40 Gly Xaa Lys Asp Arg Lys Ile Ile Leu Trp Asp His Asp Leu Asn Pro
 195 200 205
 Glu Arg Arg Asn Arg Xaa Ser Trp Ile Ser Met
 210 215

45 <210> 1060
 <211> 69
 <212> PRT
 <213> Homo sapiens

50 <400> 1060
 Leu Leu His His Gln Ile Ser Met Cys Tyr Thr Pro Cys Lys Lys Tyr
 1 5 10 15
 Thr Asp Met Asn Arg Gln Phe Leu Glu Lys Lys Glu His Phe Phe Lys
 20 25 30
 55 Tyr Leu Gly Asn Thr Ala Leu Ser Asp Gln Gln Gly Val Tyr Leu Arg
 35 40 45
 Thr Ser Val Thr Phe Gly Val Ala Met Tyr Asn Glu Ile Tyr Asn His
 50 55 60
 Asp Thr Leu Arg Trp
 60 65

<210> 1061
 <211> 86

<212> PRT

<213> Homo sapiens

<400> 1061

5 Arg Gly Xaa Trp Lys Pro Leu Cys Val Ser Leu Asp Lys Lys Ile Cys
 1 5 10 15
 Thr Xaa Val Glu Asn Thr Gln Cys Arg Ser Xaa Cys Gly Xaa Xaa Ile
 20 25 30
 Xaa Ile Ser Phe Pro Phe Gly Leu Pro Leu Leu Lys Xaa Leu Lys Ile
 35 40 45
 10 Val Xaa Phe Gln Lys Lys Arg Asp Ser Lys Xaa Pro Ile Phe Leu Gln
 50 55 60
 Tyr Val Cys Ser Cys Thr Tyr Leu Ser Glu Arg Ala Ser Lys Tyr Gln
 65 70 75 80
 15 Ala Tyr Ile Ser Val Cys
 85

<210> 1062

<211> 200

<212> PRT

<213> Homo sapiens

<400> 1062

25 Leu Ala Arg Ser Ala Asp Arg Arg Ala Ser Thr Asp Leu Thr Arg Lys
 1 5 10 15
 Met Lys Pro Asp Glu Thr Pro Met Phe Asp Pro Ser Leu Leu Lys Glu
 20 25 30
 Val Asp Trp Ser Gln Asn Thr Ala Thr Phe Ser Pro Ala Ile Ser Pro
 35 40 45
 30 Thr His Pro Gly Glu Gly Leu Val Leu Arg Pro Leu Cys Thr Ala Asp
 50 55 60
 Leu Asn Arg Gly Phe Phe Lys Val Leu Gly Gln Leu Thr Glu Thr Gly
 65 70 75 80
 Val Val Ser Pro Glu Gln Phe Met Lys Ser Phe Glu His Met Lys Lys
 85 90 95
 35 Ser Gly Asp Tyr Tyr Val Thr Val Val Glu Asp Val Thr Leu Gly Gln
 100 105 110
 Ile Val Ala Thr Ala Thr Leu Ile Ile Glu His Lys Phe Ile His Ser
 115 120 125
 40 Cys Ala Lys Arg Gly Arg Val Glu Asp Val Val Val Ser Asp Glu Cys
 130 135 140
 Arg Gly Lys Gln Leu Gly Lys Leu Leu Leu Ser Thr Leu Thr Leu Leu
 145 150 155 160
 Ser Lys Lys Leu Asn Cys Tyr Lys Ile Thr Leu Glu Cys Leu Pro Gln
 165 170 175
 45 Asn Val Gly Phe Tyr Lys Lys Phe Gly Tyr Thr Val Ser Glu Glu Asn
 180 185 190
 Tyr Met Cys Arg Arg Phe Leu Lys
 195 200

50

<210> 1063

<211> 110

<212> PRT

<213> Homo sapiens

55

<400> 1063

Tyr Val Gly Asn Asn Thr Pro Leu Ser Val Leu Arg Cys Phe Phe Glu
 1 5 10 15
 Thr Lys Ile Phe Asn Phe Met His Val Ile Asn Ser Leu Ile Gln Xaa
 20 25 30
 60 Tyr Phe Phe Xaa Met Ser His Pro Asp Xaa Asp Xaa Tyr Phe Leu Leu
 35 40 45
 Pro Ile Leu Leu Thr Pro Lys Lys Gly Ser Gln Leu Leu Glu Lys Tyr

406

Trp Glu Leu Lys Asn Lys Arg Ala Lys Ile Ser Asn Asn Glu Lys Lys
 65 70 75 80
 Ile Lys Lys Ser Gln Ile Tyr Lys Glu Met Phe Ser Ser Asp Leu Leu
 85 90 95
 5 Ala Glu Asp Ser Asn Leu Val Leu His Ser His Leu Gln Pro Arg Ser
 100 105 110
 Phe Pro

10 <210> 1066
 <211> 276
 <212> PRT
 <213> Homo sapiens

15 <400> 1066
 Val Ala Ala Ser Leu Leu Ala Pro Leu Leu Pro Glu Gly Ile Lys Glu
 1 5 10 15
 Glu Glu Glu Arg Trp Arg Arg Lys Val Ile Cys Lys Glu Glu Pro Val
 20 20 25 30
 Ser Glu Val Lys Glu Thr Ser Thr Val Glu Glu Ala Thr Thr Ile
 35 40 45
 Val Lys Pro Gln Glu Ile Met Leu Asp Asn Ile Glu Asp Pro Ser Gln
 50 55 60
 Glu Asp Leu Cys Ser Val Val Gln Ser Gly Glu Ser Glu Glu Glu Glu
 25 65 70 75 80
 Glu Gln Asp Thr Leu Glu Leu Glu Leu Val Leu Glu Arg Lys Lys Ala
 85 90 95
 Glu Leu Arg Ala Leu Glu Glu Gly Asp Gly Ser Val Ser Gly Ser Ser
 100 105 110
 30 Pro Arg Ser Asp Ile Ser Gln Pro Ala Ser Gln Asp Gly Met Arg Arg
 115 120 125
 Leu Met Ser Lys Arg Gly Lys Trp Lys Met Phe Val Arg Ala Thr Ser
 130 135 140
 Pro Glu Ser Thr Ser Arg Ser Ser Ser Lys Thr Gly Arg Asp Thr Pro
 35 145 150 155 160
 Glu Asn Gly Glu Thr Ala Ile Gly Ala Glu Asn Ser Glu Lys Ile Asp
 165 170 175
 Glu Asn Ser Asp Lys Glu Met Glu Val Glu Glu Ser Ser Glu Lys Ile
 180 185 190
 40 Lys Val Gln Thr Thr Pro Lys Xaa Xaa Glu Glu Gln Asp Leu Lys Phe
 195 200 205
 Gln Ile Gly Glu Leu Ala Asn Thr Leu Pro Ser Lys Phe Arg Val Ser
 210 215 220
 Ser Ile Asn Arg Gln Xaa Ile Phe Asn Phe His Val Leu Leu Phe Gln
 45 225 230 235 240
 Thr Gly Thr Arg Ile Ala Thr Gly Xaa Lys Gly Xaa Phe Met Xaa Thr
 245 250 255
 Thr Leu Thr Lys Thr Leu Gly Cys Pro Xaa Thr Thr Xaa Pro Phe Glu
 260 265 270
 50 Ile Xaa Pro Ser
 275

<210> 1067
 <211> 114
 55 <212> PRT
 <213> Homo sapiens

<400> 1067
 Asp Leu Pro Met His Asn Arg Val Ser Ser Phe Ile Asn Glu Gly Thr
 1 5 10 15
 Gln Ser Pro Arg Thr Leu Ile Ser Leu Pro Lys Lys Arg Thr Thr Lys
 20 25 30
 Phe Val Lys Gly Asp Ser Ser Pro Leu Gly Pro Trp Asn Ser His Phe

35 40 45
 Ile Phe Leu Ile Ser Asn Thr Val Lys Ala Lys Glu Arg Glu Arg Ile
 50 55 60
 Trp Glu Leu Lys Asn Lys Arg Ala Lys Ile Ser Asn Asn Glu Lys Lys
 5 65 70 75 80
 Ile Lys Lys Ser Gln Ile Tyr Lys Glu Met Phe Ser Ser Asp Leu Leu
 85 90 95
 Ala Glu Asp Ser Asn Leu Val Leu His Ser His Leu Gln Pro Arg Ser
 100 105 110
 10 Phe Pro

<210> 1068
 <211> 87
 15 <212> PRT
 <213> Homo sapiens

<400> 1068
 Arg Thr Arg Leu Leu Ser Ser Ala Ser Arg Ser Asp Glu Asn Ile Ser
 20 1 5 10 15
 Leu Tyr Ile Trp Leu Phe Leu Ile Phe Phe Ser Leu Phe Glu Ile Phe
 20 25 30
 Ala Leu Leu Phe Phe Ser Ser Gln Ile Leu Ser Leu Ser Leu Ala Phe
 35 40 45
 25 Thr Val Phe Asp Ile Lys Asn Met Lys Cys Glu Phe His Gly Pro Arg
 50 55 60
 Gly Glu Glu Ser Pro Phe Thr Asn Phe Val Val Leu Phe Phe Gly Arg
 65 70 75 80
 Glu Ile Ser Val Leu Gly Asp
 30 85

<210> 1069
 <211> 265
 <212> PRT
 35 <213> Homo sapiens

<400> 1069
 Val Thr Lys Leu Ser Val Lys Asp Arg Leu Gly Phe Val Ser Lys Pro
 1 5 10 15
 40 Ser Val Ser Ala Thr Glu Lys Val Leu Ser Thr Ser Thr Gly Leu Thr
 20 25 30
 Lys Thr Val Tyr Asn Pro Ala Ala Leu Lys Ala Ala Gln Lys Thr Leu
 35 40 45
 Leu Val Ser Thr Ser Ala Val Asp Asn Asn Glu Ala Gln Lys Lys Lys
 45 50 55 60
 Gln Glu Ala Leu Lys Leu Gln Gln Asp Val Arg Lys Arg Lys Gln Glu
 65 70 75 80
 Ile Leu Glu Lys His Ile Glu Thr Gln Lys Met Leu Ile Ser Lys Leu
 85 90 95
 50 Glu Lys Asn Lys Thr Met Lys Ser Glu Asp Lys Ala Glu Ile Met Lys
 100 105 110
 Thr Leu Glu Val Leu Thr Lys Asn Ile Thr Lys Leu Lys Asp Glu Val
 115 120 125
 Lys Ala Ala Ser Pro Gly Arg Cys Leu Pro Lys Ser Ile Lys Thr Lys
 55 130 135 140
 Thr Gln Met Gln Lys Glu Leu Leu Asp Thr Glu Leu Asp Leu Tyr Lys
 145 150 155 160
 Lys Met Gln Ala Gly Glu Glu Val Thr Glu Leu Arg Arg Lys Tyr Thr
 165 170 175
 60 Glu Leu Gln Leu Glu Ala Ala Lys Arg Gly Ile Leu Ser Ser Gly Arg
 180 185 190
 Gly Arg Gly Ile His Ser Arg Xaa Arg Gly Ala Val His Gly Arg Ser
 195 200 205

Arg Gly Arg Arg Pro Arg Pro Ser Val Pro Gly Met Leu Trp Trp Ile
 210 215 220
 Pro Ser Lys Ala Leu Glu Ile Ser Ala Leu Pro Gly Ala Ile Xaa Xaa
 225 230 235 240
 5 Ile Phe Phe Leu Xaa Ala Gln Ile Xaa Glu Ile Glu Xaa Gly Lys Ile
 245 250 255
 Gly Asp Xaa His Phe Met Pro Asn Tyr
 260 265
 10 <210> 1070
 <211> 27
 <212> PRT
 <213> Homo sapiens
 15 <400> 1070
 Val Leu Met His Pro Asp Val Ile Ile Lys Trp Asn Gly Leu Phe Lys
 1 5 10 15
 Lys Lys Lys Gly Lys Lys Arg Glu Lys Gln Cys
 20 25
 20 <210> 1071
 <211> 63
 <212> PRT
 <213> Homo sapiens
 25 <400> 1071
 Gln Leu Phe Thr Glu Val Lys Cys Lys His Gln Ser Phe Lys Ile Lys
 1 5 10 15
 Xaa Arg Xaa Glu Val Ser Ser Phe Leu Ala Ile Xaa Glu Ile His Leu
 20 25 30
 30 His Pro Phe Tyr Gln Lys Leu Phe Leu Gln Ile Cys Lys Ser Xaa Leu
 35 40 45
 Asp Asn Leu Met Lys His Arg Xaa Arg Ser Ser Tyr Xaa Asp Gln
 50 55 60
 35 <210> 1072
 <211> 190
 <212> PRT
 <213> Homo sapiens
 40 <400> 1072
 Asn Thr Ser Leu Val Ile Asp Glu Thr Leu Leu Glu Gln Gly Gln Leu
 1 5 10 15
 Asp Thr Pro Gly Val His Asn Val Thr Ala Leu Ser Asn Leu Ile Thr
 20 25 30
 45 Trp Gln Lys Val Asp Tyr Asp Phe Ser Tyr His Gln Met Glu Phe Pro
 35 40 45
 Cys Asn Ile Asn Val Phe Ile Thr Ser Glu Gly Arg Ser Leu Leu Pro
 50 55 60
 Ala Asp Cys Gln Ile His Leu Gln Pro Gln Leu Ile Pro Pro Asn Met
 65 70 75 80
 Glu Glu Tyr Met Asn Ser Leu Leu Ser Ala Val Leu Pro Ser Val Leu
 85 90 95
 Asn Lys Phe Arg Ile Tyr Leu Thr Leu Leu Arg Phe Leu Glu Tyr Ser
 100 105 110
 55 Ile Ser Asp Glu Ile Thr Lys Ala Val Glu Asp Asp Phe Val Glu Met
 115 120 125
 Arg Lys Asn Asp Pro Gln Ser Ile Thr Ala Asp Asp Leu His Gln Leu
 130 135 140
 60 Leu Val Val Ala Arg Cys Leu Ser Leu Ser Ala Gly Gln Thr Thr Leu
 145 150 155 160
 Ser Arg Glu Arg Trp Leu Arg Ala Lys Gln Leu Glu Ser Leu Arg Arg
 165 170 175

Thr Arg Leu Gln Gln Lys Cys Val Asn Gly Asn Glu Leu
 180 185 190

5 <210> 1073
 <211> 71
 <212> PRT
 <213> Homo sapiens

10 <400> 1073
 Leu Leu Ile Trp Asp Val Leu Phe Ile Gly Lys Val Leu Ser Arg Glu
 1 5 10 15
 Leu Phe Cys Lys Thr Lys Gln Cys Met Tyr Phe Ser Leu Val Asn Tyr
 20 25 30
 Asn Leu His Trp His Lys Lys His Met Val Thr Asn Val Leu Cys Ser
 15 35 40 45
 Arg Thr Ile Lys Glu Asn Val Phe Tyr Pro His Lys Ser Ser Glu Ala
 50 55 60
 Phe Ile Leu Phe Leu Lys Val
 65 70

20 <210> 1074
 <211> 71
 <212> PRT
 <213> Homo sapiens

25 <400> 1074
 Leu Ala Asp Leu Thr Tyr Phe Gly Thr Thr Asp Asp Pro Xaa Lys Asn
 1 5 10 15
 Ala Gln Asn Xaa Ile Xaa Ser Lys His Leu Met Thr Phe Xaa Lys Ile
 30 20 25 30
 Lys Leu Xaa Lys Xaa Xaa Met Xaa Phe Xaa Val Pro Ile Leu Phe His
 35 40 45
 Ile Xaa Ala Gln Leu Cys Xaa Pro Xaa Phe Pro Leu His Gly Ser Gln
 50 55 60
 35 Met Pro Trp Asp Trp Glu Lys
 65 70

40 <210> 1075
 <211> 214
 <212> PRT
 <213> Homo sapiens

45 <400> 1075
 Cys Ser Glu Lys Ala Ala Pro His Lys Ala Glu Gly Leu Glu Glu Ala
 1 5 10 15
 Asp Thr Gly Ala Ser Gly Cys His Ser His Pro Glu Glu Gln Pro Thr
 20 25 30
 Ser Ile Ser Pro Ser Arg His Gly Ala Leu Ala Glu Leu Cys Pro Pro
 35 40 45
 50 Gly Gly Ser His Arg Met Ala Leu Gly Thr Ala Ala Ala Leu Gly Ser
 50 55 60
 Asn Val Ile Arg Asn Glu Gln Leu Pro Leu Gln Tyr Leu Ala Asp Val
 65 70 75 80
 Asp Thr Ser Asp Glu Glu Ser Ile Arg Ala His Val Met Ala Ser His
 55 85 90 95
 His Ser Lys Arg Arg Gly Arg Ala Ser Ser Glu Ser Gln Gly Leu Gly
 100 105 110
 Ala Gly Val Arg Thr Glu Ala Asp Val Xaa Glu Glu Ala Leu Arg Arg
 115 120 125
 60 Lys Leu Glu Glu Leu Thr Ser Asn Val Ser Asp Gln Glu Thr Ser Ser
 130 135 140
 Glu Glu Glu Glu Ala Lys Asp Glu Lys Ala Glu Pro Asn Arg Asp Lys
 145 150 155 160

Ser Val Gly Pro Leu Pro Gln Ala Asp Pro Glu Val Gly Thr Xaa Ala
 165 170 175
 Ile Lys Pro Thr Asp Arg Lys Lys Ala Pro Arg Thr Leu Gly Thr Pro
 180 185 190
 5 Ser Val Asn Arg Thr Thr Asp Glu Glu Leu Ser Xaa Leu Xaa Asp Arg
 195 200 205
 Xaa Ala Ile Asp Arg Leu
 210
 10 <210> 1076
 <211> 111
 <212> PRT
 <213> Homo sapiens
 15 <400> 1076
 Pro Ala Thr Ser Val Thr Arg Arg Pro Arg Pro Arg Arg Arg Lys Pro
 1 5 10 15
 Arg Thr Lys Arg Gln Ser Pro Thr Gly Thr Asn Gln Leu Gly Leu Ser
 20 25 30
 20 Pro Arg Arg Thr Arg Arg Trp Ala Arg Xaa Pro Ser Asn Gln Gln Thr
 35 40 45
 Gly Lys Lys Pro Pro Gly Pro Trp Gly Pro Arg Gln Ser Thr Gly Pro
 50 55 60
 Gln Met Arg Ser Cys Gln Xaa Trp Xaa Thr Xaa Trp Gln Leu Thr Gly
 65 70 75 80
 25 Phe Lys Ser Xaa Thr Gly Lys Xaa Ser Xaa Val Phe Xaa Thr Phe Glu
 85 90 95
 Xaa Lys Asp Cys Asn Pro Leu Arg Ala Pro Arg Ala Ser Thr Gly
 100 105 110
 30 <210> 1077
 <211> 236
 <212> PRT
 <213> Homo sapiens
 35 <400> 1077
 Ala Phe Leu Ala Ser Leu Glu Arg Gly Arg Arg Ile Ile Asp Arg Thr
 1 5 10 15
 Leu Arg Thr Leu Gly Pro Ser Asp Met Phe Pro Ala Glu Val Ala Trp
 20 25 30
 40 Ser Leu Ser Leu Cys Gly Asp Leu Gly Leu Pro Leu Asp Met Val Glu
 35 40 45
 Leu Met Leu Glu Glu Lys Gly Val Gln Leu Asp Ser Ala Gly Leu Glu
 50 55 60
 45 Arg Leu Ala Gln Glu Glu Ala Gln His Arg Ala Arg Gln Ala Glu Pro
 65 70 75 80
 Val Gln Lys Gln Gly Leu Trp Leu Asp Val His Ala Leu Gly Glu Leu
 85 90 95
 Gln Arg Gln Gly Val Pro Pro Thr Asp Asp Ser Pro Lys Tyr Asn Tyr
 100 105 110
 50 Ser Leu Arg Pro Ser Gly Ser Tyr Glu Phe Gly Thr Cys Glu Ala Gln
 115 120 125
 Val Leu Gln Leu Tyr Thr Glu Asp Gly Thr Ala Val Ala Ser Val Gly
 130 135 140
 55 Lys Gly Gln Arg Cys Gly Leu Leu Leu Asp Arg Thr Asn Phe Tyr Ala
 145 150 155 160
 Glu Gln Gly Gly Gln Ala Ser Asp Arg Gly Tyr Leu Val Arg Ala Gly
 165 170 175
 Gln Glu Asp Val Leu Phe Pro Val Ala Arg Ala Gln Val Cys Gly Gly
 180 185 190
 60 Phe Ile Leu His Glu Ala Ile Xaa Pro Glu Cys Leu Arg Leu Gly Asp
 195 200 205
 Gln Val Gln Leu His Val Asp Xaa Ala Trp Arg Leu Ser Cys Met Ala

210	215	220
Lys His Thr Gly Thr	His Leu Ala Glu Leu Gly Thr	
225	230	235

5 <210> 1078
 <211> 125
 <212> PRT
 <213> Homo sapiens

10 <400> 1078
 Thr Pro Leu Asp Trp Ser Gly Trp Pro Lys Arg Arg Pro Ser Thr Gly
 1 5 10 15
 His Gly Arg Leu Ser Gln Phe Arg Ser Arg Asp Cys Gly Leu Met Ser
 20 25 30
 15 Met Arg Leu Gly Ser Cys Ser Ala Lys Glu Cys Pro Gln Leu Thr Thr
 35 40 45
 Ala Pro Ser Thr Thr Thr Pro Cys Asp Pro Ala Glu Val Met Ser Ser
 50 55 60
 Ala Pro Val Arg Pro Arg Cys Cys Asn Cys Ile Gln Arg Thr Gly Gln
 20 65 70 75 80
 Gln Trp Pro Pro Trp Gly Lys Ala Ser Ala Val Ala Ser Ser Trp Thr
 85 90 95
 Gly Pro Thr Ser Thr Gln Asn Arg Gly Ala Arg Leu Gln Thr Val Ala
 100 105 110
 25 Thr Trp Cys Gly Gln Gly Lys Arg Thr Cys Cys Ser Gln
 115 120 125

 <210> 1079
 <211> 180
 30 <212> PRT
 <213> Homo sapiens

 <400> 1079
 Asn Leu His Arg Pro Gly Pro Gly Leu Leu Gly Thr Ala Arg Pro Leu
 35 1 5 10 15
 Ala Leu Pro Ala Pro Gly Ser His Gly Leu Lys Pro Gly Pro Pro Val
 20 25 30
 Leu Arg Arg Ser Trp Ser Cys Pro Arg Gly Gly His Ser Ala Gly Leu
 35 40 45
 40 Ser Pro Arg Arg Pro Leu Leu Ser Arg Pro Leu Tyr Thr Val Ala Thr
 50 55 60
 Pro Gly Pro His Arg Cys Arg Thr His Asn Phe Arg Trp Val Ala Gly
 65 65 70 75 80
 Ser Ser Cys Thr Trp Gly Cys Arg Gln Leu Gly Ala Leu Leu Gly Ala
 85 90 95
 45 Ala Ala Pro Gln Ala His Gly His Gln Ala Thr Ile Pro Ala Ser Glu
 100 105 110
 Leu Ala Gln Pro Ala Val Pro Gly Ala Gly Pro Pro Leu Gly Pro Thr
 115 120 125
 50 Ala Pro Val Gln Arg Ser Leu Ala Gly Pro Leu Ser Pro Pro Ala Ser
 130 135 140
 Ala Leu Pro Cys Pro Arg Gly Val Pro Gly Leu His Thr Val Thr Arg
 145 145 150 155 160
 Thr Arg Pro Leu Gln Gln Gly Thr Tyr Leu Lys Ala Pro Gly Ser Ser
 165 170 175
 55 Glu Ser Asp Gln
 180

 <210> 1080
 60 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1080
 Thr Arg Ala Pro Xaa Ala Thr Xaa Trp Gly Phe Xaa Ile Gln Ala Pro
 1 5 10 15
 Gln Gly Pro Met Xaa Lys Xaa Phe Leu Leu Cys Pro Phe Gln Gly Xaa
 20 25 30
 Pro Arg Val Pro Ile Ala Pro Pro Phe His Asn Xaa Arg Ala Trp Gly
 35 40 45
 Thr Gly Lys Cys Ser Lys Pro Pro Ile Gly Gly Pro Arg Ala Trp Gly
 50 55 60
 Xaa Xaa Lys Trp Trp Ala Gln Gly Pro Gly Lys His Leu Xaa Asp Xaa
 65 70 75 80
 Gly Lys Leu Ala Leu Gln Tyr Ser Pro Lys Pro Met Xaa Ser Ser Gln
 85 90 95
 Leu Leu Thr Gln Val Arg Pro Arg Asp Pro Thr Trp Thr Lys Gly Asn
 100 105 110
 Ala Arg Ser Pro Glu Gly Ala Ser Arg Thr Phe Pro His Ala Glu Ala
 115 120 125
 Arg Thr Arg Gly Trp Arg Pro Ser Ser
 130 135
 20
 <210> 1081
 <211> 235
 <212> PRT
 <213> Homo sapiens
 25
 <400> 1081
 Ala Leu Asp Cys Asn Ser Glu Glu Asn Asn Phe Leu Thr Arg Glu Asn
 1 5 10 15
 Gly Glu Pro Asp Ala Phe Asp Glu Leu Phe Asp Ala Asp Gly Asp Gly
 20 25 30
 Glu Ser Tyr Thr Glu Glu Ala Asp Asp Gly Glu Thr Gly Glu Thr Arg
 35 40 45
 Asp Glu Lys Glu Asn Leu Ala Thr Leu Phe Gly Asp Met Glu Asp Leu
 50 55 60
 Thr Asp Glu Glu Glu Val Pro Ala Ser Gln Ser Thr Glu Asn Arg Val
 65 70 75 80
 Leu Pro Ala Pro Ala Pro Arg Arg Glu Lys Thr Asn Glu Glu Leu Gln
 85 90 95
 Glu Glu Leu Arg Asn Leu Gln Glu Gln Met Lys Ala Leu Gln Glu Gln
 100 105 110
 Leu Lys Val Thr Thr Ile Lys Gln Thr Ala Ser Pro Ala Arg Leu Gln
 115 120 125
 Lys Ser Pro Val Glu Lys Ser Pro Arg Pro Pro Leu Lys Glu Arg Arg
 130 135 140
 Val Gln Arg Ile Gln Glu Ser Thr Cys Phe Ser Ala Glu Leu Asp Val
 145 150 155 160
 Pro Ala Leu Pro Arg Thr Lys Arg Val Ala Arg Thr Pro Lys Ala Ser
 165 170 175
 Pro Pro Asp Pro Lys Ser Ser Ser Ser Arg Met Thr Ser Ala Pro Ser
 180 185 190
 Gln Pro Leu Gln Thr Ile Ser Arg Asn Lys Pro Ser Gly Ile Leu Glu
 195 200 205
 Val Lys Leu Xaa Gly Thr Pro Arg Lys Xaa Leu Gly Lys Arg Leu Xaa
 210 215 220
 55 Pro Ile Cys Val Glu Thr Phe Xaa Trp Ser Trp
 225 230 235
 60
 <210> 1082
 <211> 72
 <212> PRT
 <213> Homo sapiens
 <400> 1082

Val Glu Asn Gln Val Ile Ile Val Phe Ser Lys Leu Ser Val Asp Asp
 1 5 10 15
 Cys Ile Thr Ser Phe Thr Glu Val Phe Ala Gln Lys Leu Glu Gly Lys
 20 25 30
 5 Gln Arg Ala Met Phe Leu Tyr Leu Leu Val Ile Glu Cys Ser Leu Leu
 35 40 45
 Tyr His Asn Lys Ile Leu Val Phe Ile Arg Thr Pro Arg Gly Lys Arg
 50 55 60
 Ile Trp Leu Asn Ser His Ser Arg
 10 65 70

<210> 1083

<211> 52

<212> PRT

15 <213> Homo sapiens

<400> 1083

Gly Thr Lys Asn Ser Pro Glu Thr Lys Xaa Xaa Ala Arg Xaa Leu Xaa
 1 5 10 15
 20 Ala Leu Pro Thr Lys Met Xaa Asn Gly Asp Gly Asn Val Lys Gly Lys
 20 25 30
 Xaa Leu Gly Pro Lys Asp Arg Arg Xaa Lys Phe Trp Phe Xaa Lys Xaa
 35 40 45
 Arg Arg Pro Cys
 25 50

<210> 1084

<211> 242

<212> PRT

30 <213> Homo sapiens

<400> 1084

Gln Arg Glu Arg Ala Arg Pro Ser Gly Ala Arg Arg Met Tyr Asp Asn
 1 5 10 15
 35 Met Ser Thr Met Val Tyr Ile Lys Glu Asp Lys Leu Glu Lys Leu Thr
 20 25 30
 Gln Asp Glu Ile Ile Ser Lys Thr Lys Gln Val Ile Gln Gly Leu Glu
 35 40 45
 Ala Leu Lys Asn Glu His Asn Ser Ile Leu Gln Ser Leu Leu Glu Thr
 40 50 55 60
 Leu Lys Cys Leu Lys Lys Asp Asp Glu Ser Asn Leu Val Glu Glu Lys
 65 70 75 80
 Ser Asn Met Ile Arg Lys Ser Leu Glu Met Leu Glu Leu Gly Leu Ser
 85 90 95
 45 Glu Ala Gln Val Met Met Ala Leu Ser Asn His Leu Asn Ala Val Glu
 100 105 110
 Ser Glu Lys Gln Lys Leu Arg Ala Gln Val Arg Arg Leu Cys Gln Glu
 115 120 125
 Asn Gln Trp Leu Arg Asp Glu Leu Ala Asn Thr Gln Gln Lys Leu Gln
 50 130 135 140
 Lys Ser Glu Gln Ser Val Ala Gln Leu Glu Glu Glu Lys Lys His Leu
 145 150 155 160
 Glu Phe Met Asn Gln Leu Lys Lys Tyr Asp Asp Asp Ile Ser Pro Ser
 165 170 175
 55 Glu Asp Lys Asp Thr Asp Ser Thr Lys Glu Pro Leu Asp Asp Leu Phe
 180 185 190
 Pro Asn Asp Glu Asp Asp Pro Gly Gln Gly Ile Gln Gln Gln His Ser
 195 200 205
 Ser Ala Ala Ala Ala Ala Thr Gly Arg Xaa Arg Xaa Pro Arg Ala Gly
 60 210 215 220
 Xaa Asp Ala Pro Gln Pro Gly Asp Pro Val Pro Leu Ala Arg Ala Pro
 225 230 235 240
 Thr Arg

5 <210> 1085
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1085
 10 Gln Arg Glu Arg Ala Arg Pro Ser Gly Ala Arg Arg Met Tyr Asp Asn
 1 5 10 15
 Met Ser Thr Met Val Tyr Ile Lys Glu Asp Lys Leu Glu Lys Leu Thr
 20 25 30
 Gln Asp Glu Ile Ile Ser Lys Thr Lys Gln Val Ile Gln Gly Leu Glu
 35 40 45
 15 Ala Leu Lys Asn Glu His Asn Tyr Ile Leu Gln Ser Leu Leu Xaa Thr
 50 55 60
 Xaa Xaa Cys Leu Lys Lys Asp Asp Glu Ser Asn Phe Gly Gly Gly Glu
 65 70 75 80
 Ile Lys His Asp Arg Lys Ser Leu Xaa Met Phe Gly Ala Xaa Leu Xaa
 85 90 95
 20 Xaa Ala Gln Val Met Met Xaa Phe Ser Asn Tyr
 100 105

25 <210> 1086
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1086
 30 Gln Arg Glu Arg Ala Arg Pro Ser Gly Ala Arg Arg Met Tyr Asp Asn
 1 5 10 15
 Met Ser Thr Met Val Tyr Ile Lys Glu Asp Lys Leu Glu Lys Leu Thr
 20 25 30
 Gln Asp Glu Ile Ile Ser Lys Thr Lys Gln Val Ile Gln Gly Leu Glu
 35 35 40 45
 Ala Leu Lys Asn Glu His Asn Ser Ile Leu Gln Ser Leu Leu Glu Thr
 50 55 60
 Leu Lys Cys Leu Lys Lys Asp Asp Glu Ser Asn Leu Val Glu Glu Lys
 65 70 75 80
 40 Ser Asn Met Ile Arg Lys Ser Leu Glu Met Leu Glu Leu Gly Leu Ser
 85 90 95
 Glu Ala Gln Val Met Met Ala Leu Ser Asn His Leu Asn Ala Val Glu
 100 105 110
 Ser Glu Lys Gln Lys Leu Arg Ala Gln Val Arg Arg Leu Cys Gln Glu
 115 120 125
 45 Asn Gln Trp Leu Pro Asp Glu Leu Ala His Thr His Xaa Asn Cys Arg
 130 135 140
 Lys Met Thr Ile Cys Gly Leu Thr Gly Gly Gly Glu Lys Thr Ser
 145 150 155

50 <210> 1087
 <211> 132
 <212> PRT
 <213> Homo sapiens

55 <400> 1087
 Gln Arg Glu Arg Ala Arg Pro Ser Gly Ala Arg Arg Met Tyr Asp Asn
 1 5 10 15
 Met Ser Thr Met Val Tyr Ile Lys Glu Asp Lys Leu Glu Lys Leu Thr
 20 25 30
 Gln Asp Glu Ile Ile Ser Lys Thr Lys Gln Val Ile Gln Gly Leu Glu
 35 40 45
 60 Ala Leu Lys Asn Glu His Asn Ser Ile Leu Gln Ser Leu Leu Glu Thr

50 55 60
 Leu Lys Cys Leu Lys Lys Asp Asp Glu Ser Asn Leu Val Glu Glu Lys
 65 70 75 80
 Ser Asn Met Ile Arg Lys Ser Leu Glu Met Leu Glu Leu Gly Leu Ser
 85 90 95
 Glu Ala Gln Val Met Met Ala Leu Ser Asn His Leu Asn Ala Val Glu
 100 105 110
 Ser Glu Lys Gln Lys Leu Arg Ala Gln Val Arg Pro Ser Val Pro Gly
 115 120 125
 10 Glu Ser Met Ala
 130

<210> 1088
 <211> 198
 15 <212> PRT
 <213> Homo sapiens

<400> 1088
 Gln Gly Leu Glu Ala Leu Lys Asn Glu His Asn Ser Ile Leu Gln Ser
 1 5 10 15
 Leu Leu Glu Thr Leu Lys Cys Leu Lys Lys Asp Asp Glu Ser Asn Leu
 20 25 30
 Val Glu Glu Lys Ser Asn Met Ile Arg Lys Ser Leu Glu Met Leu Glu
 35 40 45
 25 Leu Gly Leu Ser Glu Ala Gln Val Met Met Ala Leu Ser Asn His Leu
 50 55 60
 Asn Ala Val Glu Ser Glu Lys Gln Lys Leu Arg Ala Gln Val Arg Arg
 65 70 75 80
 Leu Cys Gln Glu Asn Gln Trp Leu Arg Asp Glu Leu Ala Asn Thr Gln
 85 90 95
 30 Gln Lys Leu Gln Lys Ser Glu Gln Ser Val Ala Gln Leu Glu Glu Glu
 100 105 110
 Lys Lys His Leu Glu Phe Met Asn Gln Leu Lys Lys Tyr Asp Asp Asp
 115 120 125
 35 Ile Ser Pro Ser Glu Asp Lys Asp Thr Asp Ser Thr Lys Glu Pro Leu
 130 135 140
 Asp Asp Leu Phe Pro Asn Asp Glu Asp Asp Pro Gly Gln Gly Ile Gln
 145 150 155 160
 Gln Gln His Ser Ser Ala Ala Ala Ala Thr Gly Arg Xaa Arg Xaa
 165 170 175
 40 Pro Arg Ala Gly Xaa Asp Ala Pro Gln Pro Gly Asp Pro Val Pro Leu
 180 185 190
 Ala Arg Ala Pro Thr Arg
 195

45 <210> 1089
 <211> 96
 <212> PRT
 <213> Homo sapiens

50 <400> 1089
 Gln Arg Glu Arg Ala Arg Pro Ser Gly Ala Arg Arg Met Tyr Asp Asn
 1 5 10 15
 Met Ser Thr Met Val Tyr Ile Lys Glu Asp Lys Leu Glu Lys Leu Thr
 20 25 30
 Gln Asp Glu Ile Ile Ser Lys Thr Lys Gln Val Ile Gln Gly Leu Glu
 35 40 45
 Ala Leu Lys Asn Glu His Asn Ser Ile Leu Gln Ser Leu Leu Glu Thr
 50 55 60
 60 Leu Lys Cys Leu Lys Lys Asp Asp Glu Ser Asn Leu Val Glu Glu Lys
 65 70 75 80
 Ser Asn Met Ile Pro Glu Val Thr Gly Asp Val Gly Ala Arg Pro Glu
 85 90 95

5 <210> 1090
 <211> 646
 <212> PRT
 <213> Homo sapiens

<400> 1090
 Ser Pro Arg Arg Glu Thr Gly Lys Glu Ser Arg Lys Ser Gln Ser Pro
 1 5 10 15
 10 Ser Pro Lys Asn Glu Ser Ala Arg Gly Arg Lys Lys Ser Arg Ser Gln
 20 25 30
 Ser Pro Lys Lys Asp Ile Ala Arg Glu Arg Arg Gln Ser Gln Ser Arg
 35 40 45
 15 Ser Pro Lys Arg Asp Thr Thr Arg Glu Ser Arg Arg Ser Glu Ser Leu
 50 55 60
 Ser Pro Arg Arg Glu Thr Ser Arg Glu Asn Lys Arg Ser Gln Pro Arg
 65 70 75 80
 Val Lys Asp Ser Ser Pro Gly Glu Lys Ser Arg Ser Gln Ser Arg Glu
 85 90 95
 20 Arg Glu Ser Asp Arg Asp Gly Gln Arg Arg Glu Arg Glu Arg Thr
 100 105 110
 Arg Lys Trp Ser Arg Ser Arg Ser His Ser Arg Ser Pro Ser Arg Cys
 115 120 125
 25 Arg Thr Lys Ser Lys Ser Ser Phe Gly Arg Ile Asp Arg Asp Ser
 130 135 140
 Tyr Ser Pro Arg Trp Lys Gly Arg Trp Ala Asn Asp Gly Trp Arg Cys
 145 150 155 160
 Pro Pro Gly Asn Asp Arg Tyr Arg Lys Asn Asp Pro Xaa Lys Pro Asn
 165 170 175
 30 Glu Asn Thr Xaa Lys Glu Lys Asn Asp Ile His Leu Asp Ala Asp Asp
 180 185 190
 Pro Asn Ser Ala Asp Lys His Arg Asn Asp Cys Pro Asn Trp Ile Thr
 195 200 205
 35 Glu Lys Ile Asn Ser Gly Pro Asp Pro Arg Thr Arg Asn Pro Glu Lys
 210 215 220
 Leu Lys Glu Ser His Trp Glu Glu Asn Arg Asn Glu Asn Ser Gly Asn
 225 230 235 240
 Ser Trp Asn Lys Asn Phe Gly Ser Gly Trp Val Ser Asn Arg Gly Arg
 245 250 255
 40 Gly Arg Gly Asn Arg Gly Arg Gly Thr Tyr Arg Ser Ser Phe Ala Tyr
 260 265 270
 Lys Asp Gln Asn Glu Asn Arg Trp Gln Asn Arg Lys Pro Leu Ser Gly
 275 280 285
 45 Asn Ser Asn Ser Ser Gly Ser Glu Ser Phe Lys Phe Val Glu Gln Gln
 290 295 300
 Ser Tyr Lys Arg Lys Ser Glu Gln Glu Phe Ser Phe Asp Thr Pro Ala
 305 310 315 320
 Asp Arg Ser Gly Trp Thr Ser Ala Ser Ser Trp Ala Val Arg Lys Thr
 325 330 335
 50 Leu Pro Ala Asp Val Gln Asn Tyr Tyr Ser Arg Arg Gly Arg Asn Ser
 340 345 350
 Ser Gly Pro Gln Ser Gly Trp Met Lys Gln Glu Glu Glu Thr Ser Gly
 355 360 365
 55 Gln Asp Ser Ser Leu Lys Asp Gln Thr Asn Gln Gln Val Asp Gly Ser
 370 375 380
 Gln Leu Pro Ile Asn Met Met Gln Pro Gln Met Asn Val Met Gln Gln
 385 390 395 400
 Gln Met Asn Ala Gln His Gln Pro Met Asn Ile Phe Pro Tyr Pro Val
 405 410 415
 60 Gly Val His Ala Pro Leu Met Asn Ile Gln Arg Asn Pro Phe Asn Ile
 420 425 430
 His Pro Gln Leu Pro Leu His Leu His Thr Gly Val Pro Leu Met Gln
 435 440 445

Val Ala Thr Pro Thr Ser Val Ser Gln Gly Leu Pro Pro Pro Pro Pro
 450 455 460
 Pro Pro Pro Pro Ser Gln Val Asn Tyr Ile Ala Ser Gln Pro Asp
 465 470 475 480
 5 Gly Lys Gln Leu Gln Gly Ile Pro Ser Ser Ser His Val Ser Asn Asn
 485 490 495
 Met Ser Thr Pro Val Leu Pro Ala Pro Thr Ala Ala Pro Gly Asn Thr
 500 505 510
 10 Gly Met Val Gln Gly Pro Ser Ser Gly Asn Thr Ser Ser Ser Ser His
 515 520 525
 Ser Lys Ala Ser Asn Ala Ala Val Lys Leu Ala Glu Ser Lys Val Ser
 530 535 540
 Val Ala Val Glu Ala Ser Ala Asp Ser Ser Lys Thr Asp Lys Lys Leu
 545 550 555 560
 15 Gln Ile Gln Glu Lys Ala Ala Gln Glu Val Lys Leu Ala Ile Lys Pro
 565 570 575
 Phe Tyr Gln Asn Lys Asp Ile Thr Lys Glu Glu Tyr Lys Glu Ile Val
 580 585 590
 20 Arg Lys Ala Val Asp Lys Val Cys His Ser Lys Ser Gly Glu Val Asn
 595 600 605
 Ser Thr Lys Val Ala Asn Leu Val Lys Ala Tyr Val Asp Lys Tyr Lys
 610 615 620
 Tyr Ser Arg Lys Gly Ser Gln Lys Lys Thr Leu Glu Glu Pro Val Ser
 625 630 635 640
 25 Thr Glu Lys Asn Ile Gly
 645

<210> 1091
 <211> 155
 30 <212> PRT
 <213> Homo sapiens

<400> 1091
 Arg Thr Arg Asn Pro Glu Lys Leu Lys Glu Ser His Trp Glu Glu Asn
 35 1 5 10 15
 Arg Asn Glu Asn Ser Gly Asn Ser Trp Asn Lys Asn Phe Gly Ser Gly
 20 25 30
 Trp Val Ser Asn Arg Gly Arg Gly Arg Gly Asn Arg Gly Arg Gly Thr
 35 40 45
 40 Tyr Arg Ser Ser Phe Ala Tyr Lys Asp Gln Asn Glu Asn Arg Trp Gln
 50 55 60
 Asn Arg Lys Pro Leu Ser Gly Asn Ser Asn Ser Ser Gly Ser Glu Ser
 65 70 75 80
 Phe Lys Phe Val Glu Gln Gln Ser Tyr Lys Arg Lys Ser Glu Gln Glu
 45 85 90 95
 Phe Ser Phe Asp Thr Pro Ala Asp Arg Ser Gly Trp Thr Ser Ala Ser
 100 105 110
 Ser Trp Ala Val Arg Lys Thr Leu Pro Ala Asp Val Gln Asn Tyr Tyr
 115 120 125
 50 Ser Arg Arg Gly Arg Asn Ser Ser Gly Pro Gln Ser Gly Trp Met Lys
 130 135 140
 Gln Glu Glu Glu Thr Ser Gly Arg Ile Leu Ala
 145 150 155

55 <210> 1092
 <211> 124
 <212> PRT
 <213> Homo sapiens

60 <400> 1092
 Val Lys Ser Val Cys His Ser Lys Ala Ser Asn Ala Ala Val Lys Leu
 1 5 10 15
 Ala Glu Ser Lys Val Ser Val Ala Val Glu Ala Ser Ala Asp Ser Ser

20 25 30
 Lys Thr Asp Lys Lys Leu Gln Ile Gln Glu Lys Ala Ala Gln Glu Val
 35 40 45
 5 Lys Leu Ala Ile Lys Pro Phe Tyr Gln Asn Lys Asp Ile Thr Lys Glu
 50 55 60
 Glu Tyr Lys Glu Ile Val Arg Lys Ala Val Asp Lys Val Cys His Ser
 65 70 75 80
 Lys Ser Gly Glu Val Asn Ser Thr Lys Val Ala Asn Leu Val Lys Ala
 85 90 95
 10 Tyr Val Asp Lys Tyr Lys Tyr Ser Arg Lys Gly Ser Gln Lys Lys Thr
 100 105 110
 Leu Glu Glu Pro Val Ser Thr Glu Lys Asn Ile Gly
 115 120
 15 <210> 1093
 <211> 199
 <212> PRT
 <213> Homo sapiens
 20 <400> 1093
 Ser Pro Arg Arg Glu Thr Gly Lys Glu Ser Arg Lys Ser Gln Ser Pro
 1 5 10 15
 Ser Pro Lys Asn Glu Ser Ala Arg Gly Arg Lys Lys Ser Arg Ser Gln
 20 25 30
 25 Ser Pro Lys Lys Asp Ile Ala Arg Glu Arg Arg Gln Ser Gln Ser Arg
 35 40 45
 Ser Pro Lys Arg Asp Thr Thr Arg Glu Ser Arg Arg Ser Glu Ser Leu
 50 55 60
 Ser Pro Arg Arg Glu Thr Ser Arg Glu Asn Lys Arg Ser Gln Pro Arg
 65 70 75 80
 30 Val Lys Asp Ser Ser Pro Gly Glu Lys Ser Arg Ser Gln Ser Arg Glu
 85 90 95
 Arg Glu Ser Asp Arg Asp Gly Gln Arg Arg Glu Arg Glu Arg Thr
 100 105 110
 35 Arg Lys Trp Ser Arg Ser Arg Ser His Ser Arg Ser Pro Ser Arg Cys
 115 120 125
 Arg Thr Lys Ser Lys Ser Ser Ser Phe Gly Arg Ile Asp Arg Asp Ser
 130 135 140
 Tyr Ser Pro Arg Trp Lys Gly Arg Trp Ala Asn Asp Gly Trp Arg Cys
 145 150 155 160
 40 Pro Pro Gly Asn Asp Arg Tyr Arg Lys Asn Asp Pro Xaa Lys Pro Asn
 165 170 175
 Glu Asn Thr Xaa Lys Glu Lys Asn Asp Ile His Leu Asp Ala Asp Asp
 180 185 190
 45 Pro Asn Ser Cys Gly Lys His
 195
 <210> 1094
 <211> 225
 50 <212> PRT
 <213> Homo sapiens
 <400> 1094
 Asn Asp Ile His Leu Asp Ala Asp Asp Pro Asn Ser Ala Asp Lys His
 1 5 10 15
 Arg Asn Asp Cys Pro Asn Trp Ile Thr Glu Lys Ile Asn Ser Gly Pro
 20 25 30
 Asp Pro Arg Thr Arg Asn Pro Glu Lys Leu Lys Glu Ser His Trp Glu
 35 40 45
 60 Glu Asn Arg Asn Glu Asn Ser Gly Asn Ser Trp Asn Lys Asn Phe Gly
 50 55 60
 Ser Gly Trp Val Ser Asn Arg Gly Arg Gly Arg Gly Asn Arg Gly Arg
 65 70 75 80

```
<210> 1095
<211> 246
<212> PRT
<213> Homo sapiens
```

```
<210> 1096
<211> 214
<212> PRT
```

<213> Homo sapiens

<400> 1096

5 Lys Lys Val Phe Leu Pro Thr Ser Leu Cys Ile Ser Tyr Gly Gln Trp
 1 5 10 15
 Met Glu Glu Lys Lys Glu Gln Met Glu Arg Asp Gly Cys Ser Glu Gln
 20 25 30
 Glu Ser Gln Pro Cys Ala Phe Ile Gly Ile Gly Asn Ser Asp Gln Glu
 35 40 45
 10 Met Gln Gln Leu Asn Leu Glu Gly Lys Asn Tyr Cys Thr Ala Lys Thr
 50 55 60
 Leu Tyr Ile Ser Asp Ser Asp Lys Arg Lys His Phe Met Leu Ser Val
 65 70 75 80
 Lys Met Phe Tyr Gly Asn Ser Asp Asp Ile Gly Val Phe Leu Ser Lys
 85 90 95
 15 Arg Ile Lys Val Ile Ser Lys Pro Ser Lys Lys Lys Gln Ser Leu Lys
 100 105 110
 Asn Ala Asp Leu Cys Ile Ala Ser Gly Thr Lys Val Ala Leu Phe Asn
 115 120 125
 20 Arg Leu Arg Ser Gln Thr Val Ser Thr Arg Tyr Leu His Val Glu Gly
 130 135 140
 Gly Asn Phe His Ala Ser Ser Gln Gln Trp Gly Ala Phe Phe Ile His
 145 150 155 160
 Leu Leu Asp Asp Asp Glu Ser Glu Gly Glu Glu Phe Thr Val Arg Asp
 165 170 175
 25 Gly Tyr Ile His Tyr Gly Gln Thr Val Lys Leu Val Cys Ser Val Thr
 180 185 190
 Gly Met Ala Leu Pro Arg Leu Ile Ile Arg Lys Val Asp Lys Xaa Thr
 195 200 205
 30 Ala Leu Phe Gly Cys Arg
 210

<210> 1097

<211> 214

35 <212> PRT

<213> Homo sapiens

<400> 1097

40 Lys Lys Val Phe Leu Pro Thr Ser Leu Cys Ile Ser Tyr Gly Gln Trp
 1 5 10 15
 Met Glu Glu Lys Lys Glu Gln Met Glu Arg Asp Gly Cys Ser Glu Gln
 20 25 30
 Glu Ser Gln Pro Cys Ala Phe Ile Gly Ile Gly Asn Ser Asp Gln Glu
 35 40 45
 45 Met Gln Gln Leu Asn Leu Glu Gly Lys Asn Tyr Cys Thr Ala Lys Thr
 50 55 60
 Leu Tyr Ile Ser Asp Ser Asp Lys Arg Lys His Phe Met Leu Ser Val
 65 70 75 80
 Lys Met Phe Tyr Gly Asn Ser Asp Asp Ile Gly Val Phe Leu Ser Lys
 85 90 95
 50 Arg Ile Lys Val Ile Ser Lys Pro Ser Lys Lys Lys Gln Ser Leu Lys
 100 105 110
 Asn Ala Asp Leu Cys Ile Ala Ser Gly Thr Lys Val Ala Leu Phe Asn
 115 120 125
 55 Arg Leu Arg Ser Gln Thr Val Ser Thr Arg Tyr Leu His Val Glu Gly
 130 135 140
 Gly Asn Phe His Ala Ser Ser Gln Gln Trp Gly Ala Phe Phe Ile His
 145 150 155 160
 Leu Leu Asp Asp Asp Glu Ser Glu Gly Glu Glu Phe Thr Val Arg Asp
 165 170 175
 60 Gly Tyr Ile His Tyr Gly Gln Thr Val Lys Leu Val Cys Ser Val Thr
 180 185 190
 Gly Met Ala Leu Pro Arg Leu Ile Ile Arg Lys Val Asp Lys Xaa Thr

195 200 205
Ala-Leu Phe Gly Cys Arg
210

5 <210> 1098
<211> 178
<212> PRT
<213> Homo sapiens

10 <400> 1098
Met Met Gly Leu Leu Gly Gln Ser Leu Xaa Gln Ile Xaa Gln Ser Ile
1 5 10 15
His-Phe Met Arg Glu Trp Ala Xaa Ser Xaa Ala Pro Val Thr Pro Val
20 25 30
15 Pro Val Val Glu Ser Xaa Gln Leu Asn Gly Gly Gly Asp Val Ala Met
35 40 45
Leu Glu Leu Thr Xaa Gln Asn Phe Thr Pro Asn Leu Arg Val Trp Phe
50 55 60
Gly Asp Val Glu Ala Glu Thr Met Tyr Arg Cys Gly Glu Ser Met Leu
20 65 70 75 80
Cys Val Val Pro Asp Ile Xaa Ala Phe Arg Glu Gly Trp Arg Trp Val
85 90 95
Arg-Gln Pro Val Gln Val Pro Val Thr Leu Val Arg Asn Asp Gly Ile
100 105 110
25 Ile Tyr Ser Thr Ser Leu Thr Phe Thr Tyr Thr Pro Glu Pro Gly Pro
115 120 125
Arg Pro His Cys Ser Ala Ala Gly Ala Ile Leu Arg Ala Asn Ser Ser
130 135 140
Gln Val Pro Pro Asn Glu Ser Asn Thr Asn Ser Glu Gly Ser Tyr Thr
30 145 150 155 160
Asn Ala Ser Thr Asn Ser Thr Ser Val Thr Ser Ser Thr Ala Thr Val
165 170 175
Val Ser

35 <210> 1099
<211> 218
<212> PRT
<213> Homo sapiens

40 <400> 1099
Thr Val Leu Ile Leu His Ala Lys Val Ala Gln Lys Ser Tyr Gly Asn
1 5 10 15
Glu Lys Arg Phe Phe Cys Pro Pro Pro Cys Val Tyr Leu Met Gly Ser
45 20 25 30
Gly Trp Lys Lys Lys Lys Glu Gln Met Glu Arg Asp Gly Cys Ser Glu
35 40 45
Gln Glu Ser Gln Pro Cys Ala Phe Ile Gly Ile Gly Asn Ser Asp Gln
50 55 60
Glu Met Gln Gln Leu Asn Leu Glu Gly Lys Asn Tyr Cys Thr Ala Lys
65 70 75 80
Thr Leu Tyr Ile Ser Asp Ser Asp Lys Arg Lys His Phe Met Leu Ser
85 90 95
Val Lys Met Phe Tyr Gly Asn Ser Asp Asp Ile Gly Val Phe Leu Ser
55 100 105 110
Lys Arg Ile Lys Val Ile Ser Lys Pro Ser Lys Lys Lys Gln Ser Leu
115 120 125
Lys Asn Ala Asp Leu Cys Ile Ala Ser Gly Thr Lys Val Ala Leu Phe
130 135 140
60 Asn Arg Leu Arg Ser Gln Thr Val Ser Thr Arg Tyr Leu His Val Glu
145 150 155 160
Gly Gly Asn Phe His Ala Ser Ser Gln Gln Trp Gly Ala Phe Phe Ile
165 170 175

His Leu Leu Asp Asp Asp Glu Ser Glu Gly Glu Glu Phe Thr Val Pro
 180 185 190
 Arg Trp Leu His Pro Leu Trp Thr Asn Ser Gln Thr Cys Val Leu Ser
 195 200 205
 5 Tyr Trp His Gly Leu Pro Lys Ile Asp Asn
 210 215

 <210> 1100
 <211> 201
 10 <212> PRT
 <213> Homo sapiens

 <400> 1100
 15 Val Val Gln Ala Gly Val Phe Gly Arg Ala Trp Glu His Lys Ser Leu
 1 5 10 15
 Phe His His Val Ser Arg Thr Ser His Ser Gly Pro Gly Leu Val Ala
 20 25 30
 Lys Met Val Lys Pro Lys Tyr Lys Gly Arg Ser Thr Ile Asn Pro Ser
 35 40 45
 20 Lys Ala Ser Thr Asn Pro Asp Arg Val Gln Gly Ala Gly Gly Gln Asn
 50 55 60
 Met Arg Asp Arg Ala Thr Ile Arg Arg Leu Asn Met Tyr Arg Gln Lys
 65 70 75 80
 Glu Arg Arg Asn Ser Arg Gly Lys Ile Ile Lys Pro Leu Gln Tyr Gln
 85 90 95
 25 Ser Thr Val Ala Ser Gly Thr Val Ala Arg Val Glu Pro Asn Ile Lys
 100 105 110
 Trp Phe Gly Asn Thr Arg Val Ile Lys Gln Ser Ser Leu Gln Lys Phe
 115 120 125
 30 Gln Glu Glu Met Asp Thr Val Met Lys Asp Pro Tyr Lys Val Val Met
 130 135 140
 Lys Gln Ser Lys Leu Pro Met Ser Leu Leu His Asp Arg Ile Arg Pro
 145 150 155 160
 His Asn Leu Lys Gly His Ile Leu Asp Thr Glu Ser Phe Glu Thr Thr
 165 170 175
 35 Phe Gly Pro Xaa Ser Gln Lys Glu Thr Asp Gln Thr Tyr Phe Ala Ser
 180 185 190
 Asp Met Gln Ser Leu Ile Glu Asn Ala
 195 200

 40 <210> 1101
 <211> 210
 <212> PRT
 <213> Homo sapiens

 45 <400> 1101
 Ala Gly Xaa Phe Gly Arg Ala Trp Glu His Lys Ser Leu Phe His His
 1 5 10 15
 Val Ser Arg Thr Ser His Ser Gly Pro Gly Leu Val Ala Lys Met Val
 20 25 30
 Lys Pro Lys Tyr Lys Gly Arg Ser Thr Ile Asn Pro Ser Lys Ala Ser
 35 40 45
 Thr Asn Pro Asp Arg Val Gln Gly Ala Gly Gly Gln Asn Met Arg Asp
 50 55 60
 55 Arg Ala Thr Ile Arg Arg Leu Asn Met Tyr Arg Gln Lys Glu Arg Arg
 65 70 75 80
 Asn Ser Arg Gly Lys Ile Ile Lys Pro Leu Gln Tyr Gln Ser Thr Val
 85 90 95
 Ala Ser Gly Thr Val Ala Arg Val Glu Pro Asn Ile Lys Trp Phe Gly
 100 105 110
 60 Asn Thr Arg Val Ile Lys Gln Ser Ser Leu Gln Lys Phe Gln Glu Glu
 115 120 125
 Met Asp Thr Val Met Lys Asp Pro Tyr Lys Val Val Met Lys Gln Ser

130 135 140
 Lys Leu Pro Met Ser Leu Leu His Asp Arg Ile Arg Pro His Asn Leu
 145 150 155 160
 Lys Val His Ile Leu Asp Thr Glu Ser Phe Glu Thr Thr Phe Gly Pro
 5 165 170 175
 Lys Ser Gln Arg Lys Arg Pro Asn Leu Phe Ala Ser Asp Met Gln Ser
 180 185 190
 Leu Ile Glu Asn Ala Glu Met Ser Thr Glu Ser Tyr Asp Pro Gly Gln
 195 200 205
 10 Gly Ser
 210
 <210> 1102
 <211> 232
 15 <212> PRT
 <213> Homo sapiens
 <400> 1102
 Arg Val Gln Ile Pro Ser Phe Lys Glu Asp Xaa Arg Gly Pro Xaa Xaa
 20 1 5 10 15
 Val Arg Leu Pro Gln Xaa Cys Gly Arg Phe Phe His Glu Ser Xaa Asp
 20 25 30
 Phe Gly Lys Ile Gln Xaa Xaa Pro Gln Phe Phe Gly Asn Asp Leu Val
 35 40 45
 25 Xaa Val Xaa Val Ser Asp Leu Glu Lys Glu Leu Glu Ser Phe Phe Leu
 50 55 60
 Met Lys Arg Arg Arg Asn Arg Ser Thr Lys Glu Met Met Arg Glu Glu
 65 70 75 80
 Ser Ser Ser Glu Pro Glu Glu Glu Asn Val Gly Asn Asp Thr Lys Ala
 30 85 90 95
 Val Ile Lys Ala Leu Asp Glu Lys Ile Val Lys Tyr Gln Lys Phe Leu
 100 105 110
 Asp Lys Ala Lys Ala Lys Lys Phe Ser Ala Val Arg Ile Ser Lys Gly
 115 120 125
 35 Leu Ser Glu Lys Ile Phe Ala Lys Pro Glu Glu Gln Arg Lys Thr Leu
 130 135 140
 Glu Glu Asp Val Asp Asp Arg Xaa Pro Ser Lys Lys Gly Lys Lys Arg
 145 150 155 160
 Lys Ala Gln Arg Glu Glu Glu Gln Glu His Ser Asn Lys Ala Pro Arg
 40 165 170 175
 Ala Leu Thr Ser Lys Glu Arg Arg Arg Ala Val Arg Gln Gln Arg Pro
 180 185 190
 Lys Lys Val Gly Val Arg Tyr Tyr Glu Thr His Asn Val Lys Asn Arg
 195 200 205
 45 Asn Arg Asn Lys Lys Lys Thr Asn Asp Ser Glu Gly Gln Lys His Lys
 210 215 220
 Arg Lys Lys Phe Arg Gln Lys Gln
 225 230
 50 <210> 1103
 <211> 210
 <212> PRT
 <213> Homo sapiens
 55 <400> 1103
 Trp Ala Thr Lys Arg Trp Val Ala Val Leu Ser Gln Asp Tyr Pro Thr
 1 5 10 15
 Leu Ala Phe His Ala Ser Leu Thr Asn Pro Phe Gly Lys Gly Ala Phe
 20 25 30
 60 Ile Gln Leu Leu Arg Gln Phe Gly Lys Leu His Thr Asp Lys Lys Gln
 35 40 45
 Ile Ser Val Gly Phe Ile Gly Tyr Pro Asn Val Gly Lys Ser Ser Val
 50 55 60

Ile Asn Thr Leu Arg Ser Lys Lys Val Cys Asn Val Ala Pro Ile Ala
 65 70 75 80
 Gly Glu Thr Lys Val Trp Gln Tyr Ile Thr Leu Met Arg Arg Ile Phe
 85 90 95
 5 Leu Ile Asp Cys Pro Gly Val Val Tyr Pro Ser Glu Asp Ser Glu Thr
 100 105 110
 Asp Ile Val Leu Lys Gly Val Val Gln Val Glu Lys Ile Lys Ser Pro
 115 120 125
 10 Glu Asp His Ile Gly Ala Val Leu Glu Arg Ala Lys Pro Glu Tyr Ile
 130 135 140
 Ser Lys Thr Tyr Lys Ile Asp Ser Trp Glu Asn Ala Glu Asp Phe Leu
 145 150 155 160
 Glu Lys Leu Ala Phe Arg Thr Gly Lys Leu Leu Lys Gly Gly Glu Pro
 165 170 175
 15 Asp Leu Gln Thr Val Gly Lys Met Val Leu Asn Asp Trp Gln Lys Gly
 180 185 190
 Arg Ile Xaa Phe Phe Val Lys Pro Pro Asn Ala Glu Pro Leu Trp Ala
 195 200 205
 -Pro Thr
 20 210
 <210> 1104
 <211> 210
 <212> PRT
 25 <213> Homo sapiens
 <400> 1104
 Val Gln Ala Gly Val Phe Gly Arg Ala Trp Glu His Lys Ser Leu Phe
 1 5 10 15
 30 His His Val Ser Arg Thr Ser His Ser Gly Pro Gly Leu Val Ala Lys
 20 25 30
 Met Val Lys Pro Lys Tyr Lys Gly Arg Ser Thr Ile Asn Pro Ser Lys
 35 40 45
 Ala Ser Thr Asn Pro Asp Arg Val Gln Gly Ala Gly Gly Gln Asn Met
 50 55 60
 35 Arg Asp Arg Ala Thr Ile Arg Arg Leu Asn Met Tyr Arg Gln Lys Glu
 65 70 75 80
 Arg Arg Asn Ser Arg Gly Lys Ile Ile Lys Pro Leu Gln Tyr Gln Ser
 85 90 95
 40 Thr Val Ala Ser Gly Thr Val Ala Arg Val Glu Pro Asn Ile Lys Trp
 100 105 110
 Phe Gly Asn Thr Arg Val Ile Lys Gln Ser Ser Leu Gln Lys Phe Gln
 115 120 125
 Glu Glu Met Asp Thr Val Met Lys Asp Pro Tyr Lys Val Val Met Lys
 130 135 140
 45 Gln Ser Lys Leu Pro Met Ser Leu Leu His Asp Arg Ile Arg Pro His
 145 150 155 160
 Asn Leu Lys Val His Ile Leu Asp Thr Glu Ser Phe Glu Thr Thr Phe
 165 170 175
 50 Gly Pro Lys Ser Arg Xaa Asn Asp Gln Thr Tyr Leu Gln Val Ile Cys
 180 185 190
 Ser Leu Leu Ser Lys Met Leu Lys Cys Pro Leu Arg Ala Met Thr Arg
 195 200 205
 Ala Arg
 55 210
 <210> 1105
 <211> 368
 <212> PRT
 60 <213> Homo sapiens
 <400> 1105
 Glu Ile Asp Gln Val Val Pro Ala Ala Gln Ser Ser Pro Ile Asn Cys

85 90 95
 Leu Ile Ile Ser Val Glu Gln Leu Gln Ala Ser Phe Leu Leu Asn Pro
 100 105 110
 5 Glu Lys Tyr Thr Asp Glu Leu Ala Thr Gln Pro Arg Arg Leu Leu Asn
 115 120 125
 Thr Leu Arg Glu Leu Asn Pro Met Tyr Glu Gly Tyr Leu Gln His Asp
 130 135 140
 Ala Gln Glu Val Leu Gln Cys Ile Leu Gly Asn Ile Gln Glu Thr Cys
 145 150 155 160
 10 Gln Leu Leu Lys Lys Glu Glu Val Lys Asn Val Ala Glu Phe Leu Leu
 165 170 175
 Arg Xaa Lys Lys Ser Ser Ser Glu Glu Glu Met Asn Gly Leu Gln His
 180 185 190
 Xaa Asp Gly Xaa Met Xaa Leu Leu Xaa Thr Phe Lys Arg Thr Pro Lys
 195 200 205
 15 Gly Met Gly Lys Glu Lys Val Pro Trp Ile
 210 215

 <210> 1107
 20 <211> 121
 <212> PRT
 <213> Homo sapiens

 <400> 1107
 25 Leu Asn Tyr Pro Lys Arg Arg His Leu Asn Thr Trp Ile Tyr Thr Ser
 1 5 10 15
 Leu Leu Cys Leu Leu Phe Lys Ile Lys Cys Ser Tyr Leu Tyr Ser Pro
 20 25 30
 Tyr Phe Gly Val Ile Ile Tyr Met Met Phe Ile Val Pro Val Val Phe
 35 40 45
 30 His Pro Arg Ser Arg Ile Ser Phe Ser Thr Phe Ser Phe Ile Arg Val
 50 55 60
 Met Lys Leu Asn Pro Trp Ala Met Ser Glu Ala Gln Ser Leu Glu Cys
 65 70 75 80
 35 Val Tyr Ser Gln Trp Cys Met Tyr Ile Leu Cys Leu Asp Ser Leu Arg
 85 90 95
 Ser Val Ser Glu Asn Leu Asp Ser Ser Leu Leu His Lys Asn Phe Ile
 100 105 110
 Cys Ile Tyr Glu Asp Asp Ser Val Pro
 115 120
 40

 <210> 1108
 <211> 211
 <212> PRT
 45 <213> Homo sapiens

 <400> 1108
 Glu Thr Cys Gln Leu Leu Lys Lys Glu Glu Val Lys Asn Val Ala Glu
 1 5 10 15
 50 Leu Pro Thr Lys Val Glu Glu Ile Pro His Pro Lys Glu Glu Met Asn
 20 25 30
 Gly Ile Asn Ser Ile Glu Met Asp Ser Met Arg His Ser Glu Asp Phe
 35 40 45
 Lys Glu Lys Leu Pro Lys Gly Asn Gly Lys Arg Lys Ser Asp Thr Glu
 50 55 60
 55 Phe Gly Asn Met Lys Lys Lys Val Lys Leu Ser Lys Glu His Gln Ser
 65 70 75 80
 Leu Glu Glu Asn Gln Arg Gln Thr Arg Ser Lys Arg Lys Ala Thr Ser
 85 90 95
 60 Asp Thr Leu Glu Ser Pro Pro Lys Ile Ile Pro Lys Tyr Ile Ser Glu
 100 105 110
 Asn Glu Ser Pro Arg Pro Ser Gln Lys Lys Ser Arg Val Lys Ile Asn
 115 120 125

Trp Leu Lys Ser Ala Thr Lys Gln Pro Ser Ile Leu Ser Lys Phe Cys
 130 135 140
 Ser Leu Gly Lys Ile Thr Thr Asn Gln Gly Val Lys Gly Gln Ser Lys
 145 150 155 160
 5 Glu Asn Glu Cys Asp Pro Glu Glu Asp Leu Gly Lys Cys Glu Ser Asp
 165 170 175
 Asn Thr Thr Asn Gly Cys Gly Leu Glu Ser Pro Gly Asn Thr Val Thr
 180 185 190
 10 Pro Val Asn Val Asn Glu Val Lys Pro Ile Asn Lys Gly Glu Glu Gln
 195 200 205
 Ile Gly Phe
 210

15 <210> 1109
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1109
 20 Asn Val Ala Glu Leu Pro Thr Lys Val Glu Glu Ile Pro His Pro Lys
 1 5 10 15
 Glu Glu Met Asn Gly Ile Asn Ser Ile Glu Met Asp Ser Met Arg His
 20 25 30
 25 Ser Glu Asp Phe Lys Glu Lys Leu Pro Lys Gly Asn Gly Lys Arg Lys
 35 40 45
 Ser Asp Thr Glu Phe Gly Asn Met Lys Lys Lys Val Lys Leu Ser Lys
 50 55 60
 Glu His Gln Ser Leu Glu Glu Asn Gln Arg Gln Thr Arg Ser Lys Arg
 65 70 75 80
 30 Lys Ala Thr Ser Asp Thr Leu Glu Ser Pro Pro Lys Ile Ile Pro Lys
 85 90 95
 Tyr Ile Ser Glu Asn Glu Ser Pro Arg Pro Ser Gln Lys Lys Ser Arg
 100 105 110
 35 Val Lys Ile Asn Trp Leu Lys Ser Ala Thr Lys Gln Pro Ser Ile Leu
 115 120 125
 Ser Lys Phe Cys Ser Leu Gly Lys Ile Thr Thr Asn Gln Gly Val Lys
 130 135 140
 Gly Gln Ser Lys Glu Asn Glu Cys Asp Pro Glu Glu Asp Leu Gly Lys
 145 150 155 160
 40 Cys Glu Ser Asp Asn Thr Thr Asn Gly Cys Gly Leu Glu Ser Pro Gly
 165 170 175
 Asn Thr Val Thr Pro Val Asn Val Asn Glu Ser
 180 185

45 <210> 1110
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 1110
 50 Ile Pro Thr Glu Val Ala Ile Glu Ser Thr Pro Met Ile Leu Glu Ser
 1 5 10 15
 Ser Ile Met Ser Ser His Val Met Lys Gly Ile Asn Leu Ser Ser Gly
 20 25 30
 55 Asp Gln Asn Leu Ala Pro Glu Ile Gly Ile Gln Glu Ile Ala Leu His
 35 40 45
 Ser Gly Glu Glu Pro His Ala Glu Glu His Leu Lys Gly Asp Phe Tyr
 50 55 60
 Glu Ser Glu His Gly Ile Asn Ile Asp Leu Asn Ile Asn Asn His Leu
 65 70 75 80
 60 Ile Ala Lys Glu Met Glu His Asn Thr Val Cys Ala Ala Gly Thr Ser
 85 90 95
 Pro Val Gly Glu Ile Gly Glu Glu Lys Ile Leu Pro Thr Ser Glu Thr

100 105 110
 Lys Gln Cys Thr Val Leu Asp Thr Tyr Pro Gly Val Ser Glu Ala Asp
 115 120 125
 5 Ala Gly Glu Thr Leu Ser Ser Thr Gly Pro Phe Ala Leu Glu Pro Asp
 130 135 140
 Ala Thr Gly Thr Ser Lys Gly Ile Glu Phe Thr Thr Ala Ser Thr Leu
 145 150 155 160
 Ser Leu Val Asn Lys Tyr Asp Val Asp Leu Ser Leu Thr Thr Gln Asp
 165 170 175
 10 Thr Glu His Asp Met Val Ile Ser Thr Ser Pro Ser Gly Gly Ser Glu
 180 185 190
 Ala Asp Ile Glu Gly Pro Leu Pro Ala Lys Asp Ile His Leu Asp Leu
 195 200 205
 15 Pro Ser Asn Asn Asn Leu Val Ser Lys Asp Thr Glu Glu Pro Leu Pro
 210 215 220
 Val Lys Glu Ser Asp Gln Thr Leu Ala Ala Leu Leu Ser Pro Lys Glu
 225 230 235 240
 Ser Ser Gly Gly Glu Lys Glu Val Pro Pro Pro Lys Glu Thr Leu
 245 250 255
 20 Pro Asp Ser Gly Phe Ser Ala Asn Ile Glu Asp Ile Asn Glu Ala Asp
 260 265 270
 Leu Val Arg Pro Leu Leu Pro Lys Asp Met Glu Arg Leu Thr Ser Leu
 275 280 285
 25 Lys Ser Trp His Leu Lys Asp Leu Tyr Leu Gln Val Met Phe Gly Pro
 290 295 300
 Trp Thr Arg Ser Ala Gly Gln Pro Xaa Leu
 305 310

 <210> 1111
 30 <211> 218
 <212> PRT
 <213> Homo sapiens

 <400> 1111
 35 Pro Val Gly Glu Ile Gly Glu Glu Lys Ile Leu Pro Thr Ser Glu Thr
 1 5 10 15
 Lys Gln Cys Thr Val Leu Asp Thr Tyr Pro Gly Val Ser Glu Ala Asp
 20 25 30
 40 Ala Gly Glu Thr Leu Ser Ser Thr Gly Pro Phe Ala Leu Glu Pro Asp
 35 40 45
 Ala Thr Gly Thr Ser Lys Gly Ile Glu Phe Thr Thr Ala Ser Thr Leu
 50 55 60
 Ser Leu Val Asn Lys Tyr Asp Val Asp Leu Ser Leu Thr Thr Gln Asp
 65 70 75 80
 45 Thr Glu His Asp Met Val Ile Ser Thr Ser Pro Ser Gly Gly Ser Glu
 85 90 95
 Ala Asp Ile Glu Gly Pro Leu Pro Ala Lys Asp Ile His Leu Asp Leu
 100 105 110
 50 Pro Ser Asn Asn Asn Leu Val Ser Lys Asp Thr Glu Glu Pro Leu Pro
 115 120 125
 Val Lys Glu Ser Asp Gln Thr Leu Ala Ala Leu Leu Ser Pro Lys Glu
 130 135 140
 Ser Ser Gly Gly Glu Lys Glu Val Pro Pro Pro Lys Glu Thr Leu
 145 150 155 160
 55 Pro Asp Ser Gly Phe Ser Ala Asn Ile Glu Asp Ile Asn Glu Ala Asp
 165 170 175
 Leu Val Arg Pro Leu Leu Pro Lys Asp Met Glu Arg Leu Thr Ser Leu
 180 185 190
 60 Lys Ser Trp His Leu Lys Asp Leu Tyr Leu Gln Val Met Phe Gly Pro
 195 200 205
 Trp Thr Arg Ser Ala Gly Gln Pro Xaa Leu
 210 215

<210> 1112
 <211> 163
 <212> PRT
 <213> Homo sapiens

5

<400> 1112
 Ile Pro Thr Glu Val Ala Ile Glu Ser Thr Pro Met Ile Leu Glu Ser
 1 5 10 15
 Ser Ile Met Ser Ser His Val Met Lys Gly Ile Asn Leu Ser Ser Gly
 20 25 30
 Asp Gln Asn Leu Ala Pro Glu Ile Gly Ile Gln Glu Ile Ala Leu His
 35 40 45
 Ser Gly Glu Glu Pro His Ala Glu Glu His Leu Lys Gly Asp Phe Tyr
 50 55 60
 Glu Ser Glu His Gly Ile Asn Ile Asp Leu Asn Ile Asn Asn His Leu
 65 70 75 80
 Ile Ala Lys Glu Met Glu His Asn Thr Val Cys Ala Ala Gly Thr Ser
 85 90 95
 Pro Val Gly Glu Ile Gly Glu Glu Lys Ile Leu Pro Thr Ser Glu Thr
 100 105 110
 Lys Gln Arg Thr Val Leu Asp Thr Tyr Pro Gly Val Ser Glu Ala Asp
 115 120 125
 Ala Gly Glu Thr Leu Ser Ser Thr Gly Pro Phe Ala Leu Glu Pro Asp
 130 135 140
 Ala Thr Gly Thr Ser Lys Gly Ile Glu Phe Thr Thr Ala Ser Thr Leu
 145 150 155 160
 Ser Leu Ser

30

<210> 1113
 <211> 332
 <212> PRT
 <213> Homo sapiens

35

<400> 1113
 Ser Gly Cys Gly Ala Pro Ala Ala Gly Ala Gly Pro Arg Gly Ala Glu
 1 5 10 15
 Leu Gly Ser Gly Ala Gln Ala Val Pro Arg Gly Ala Met Lys Gly Lys
 20 25 30
 Glu Glu Lys Glu Gly Gly Ala Arg Leu Gly Ala Gly Gly Gly Ser Pro
 35 40 45
 Glu Lys Ser Pro Ser Ala Gln Glu Leu Lys Glu Gln Gly Asn Arg Leu
 50 55 60
 Phe Val Gly Arg Lys Tyr Pro Glu Ala Ala Ala Cys Tyr Gly Arg Ala
 65 70 75 80
 Ile Thr Arg Asn Pro Leu Val Ala Val Tyr Tyr Thr Asn Arg Ala Leu
 85 90 95
 Cys Tyr Leu Lys Met Gln Gln His Glu Gln Ala Leu Ala Asp Cys Arg
 100 105 110
 Arg Ala Leu Glu Leu Asp Gly Gln Ser Val Lys Ala His Phe Phe Leu
 115 120 125
 Gly Gln Cys Gln Leu Glu Met Glu Ser Tyr Asp Glu Ala Ile Ala Asn
 130 135 140
 Leu Gln Arg Ala Tyr Ser Leu Ala Lys Glu Gln Arg Leu Asn Phe Gly
 145 150 155 160
 Asp Asp Ile Pro Ser Ala Leu Arg Ile Ala Lys Xaa Lys Arg Trp Asn
 165 170 175
 Ser Ile Glu Glu Arg Arg Ile His Gln Glu Ser Glu Leu Xaa Phe Tyr
 180 185 190
 Xaa Phe Xaa Leu Ile Ala Xaa Asp Arg Glu Arg Lys Xaa Lys Xaa Cys
 195 200 205
 Gln Gly Asn His Glu Gly Tyr Glu Asp Asp Lys Pro Arg Pro Gly Pro
 210 215 220

Ser Arg Leu Ala Leu Arg Pro Ser Thr Thr Ser Thr Trp Arg Thr Trp
 225 230 235 240
 Thr Ser Phe Phe Phe Gln Val Asp Glu Arg Gly Arg Ser Glu Thr Ser
 245 250 255
 5 Pro Thr Tyr Leu Cys Gly Lys Ile Ser Phe Glu Pro Met Arg Glu Pro
 260 265 270
 Cys Ile Thr Pro Ser Gly Ile Thr Tyr Asp Arg Lys Asp Ile Glu Glu
 275 280 285
 10 His Leu Gln Arg Val Gly His Phe Asp Pro Val Thr Arg Ser Pro Leu
 290 295 300
 Thr Gln Glu Gln Leu Ile Pro Asn Leu Ala Met Lys Glu Val Ile Asp
 305 310 315 320
 Ala Phe Ile Ser Glu Asn Gly Trp Val Glu Asp Tyr
 325 330
 15
 <210> 1114
 <211> 259
 <212> PRT
 <213> Homo sapiens
 20
 <400> 1114
 Val Thr Gln Glu Phe Thr Gln Tyr Trp Ala Gln Arg Glu Ala Asp Phe
 1 5 10 15
 Lys Glu Thr Leu Leu Gln Glu Arg Glu Ile Leu Glu Glu Asn Ala Glu
 20 25 30
 25 Arg Arg Leu Ala Ile Phe Lys Asp Leu Val Gly Lys Cys Asp Thr Arg
 35 40 45
 Glu Glu Ala Ala Lys Asp Ile Cys Ala Thr Lys Val Glu Thr Glu Glu
 50 55 60
 30 Ala Thr Ala Cys Leu Glu Leu Lys Phe Asn Gln Ile Lys Ala Glu Leu
 65 70 75 80
 Ala Lys Thr Lys Gly Glu Leu Ile Lys Thr Lys Glu Glu Leu Lys Lys
 85 90 95
 Arg Glu Asn Glu Ser Asp Ser Leu Ile Gln Glu Leu Glu Thr Ser Asn
 100 105 110
 35 Lys Lys Ile Ile Thr Gln Asn Gln Arg Ile Lys Glu Leu Ile Asn Ile
 115 120 125
 Ile Asp Gln Lys Glu Asp Thr Ile Asn Glu Phe Gln Asn Leu Lys Ser
 130 135 140
 40 His Met Glu Asn Thr Phe Lys Cys Asn Asp Lys Ala Asp Thr Ser Ser
 145 150 155 160
 Leu Ile Ile Asn Asn Lys Leu Ile Cys Asn Glu Thr Val Glu Val Pro
 165 170 175
 Lys Asp Ser Lys Ser Lys Ile Cys Ser Glu Arg Lys Arg Val Asn Glu
 180 185 190
 45 Asn Glu Leu Gln Gln Asp Glu Pro Ala Lys Lys Gly Ser Ile His
 195 200 205
 Cys Ser Ser Ala Ser Leu Lys Thr Lys Arg Lys Val Glu Glu Val Arg
 210 215 220
 50 Pro Glu His Cys Arg Lys Leu Lys Thr Xaa Arg Val Leu Gln Gly Lys
 225 230 235 240
 Ile Met Lys Gly Leu Glu Ser Ile Phe Ser Ser Leu Phe Glu Asn Asp
 245 250 255
 Leu Lys Lys
 55
 <210> 1115
 <211> 204
 <212> PRT
 <213> Homo sapiens
 60
 <400> 1115
 Arg Ile Ser Asn Ser Arg Xaa Pro Ile Gly Lys Ile Leu Ser Xaa Leu

1 5 10 15
 Val Leu Lys Pro Ile Trp Glu Glu Cys Lys Glu Ile Val Lys Ala Ser
 20 25 30
 Ser Lys Lys Ser His Gln Ile Glu Glu Leu Glu Gln Gln Ile Glu Lys
 35 40 45
 Leu Gln Ala Glu Val Lys Gly Tyr Lys Asp Glu Asn Asn Arg Leu Lys
 50 55 60
 Glu Lys Glu His Lys Asn Gln Asp Asp Leu Leu Lys Glu Lys Glu Thr
 65 70 75 80
 10 Leu Ile Gln Gln Leu Lys Glu Glu Leu Gln Glu Lys Asn Val Thr Leu
 85 90 95
 Asp Val Gln Ile Gln His Val Val Glu Gly Lys Arg Ala Leu Ser Glu
 100 105 110
 Leu Thr Gln Gly Val Thr Cys Tyr Lys Ala Lys Ile Lys Glu Leu Glu
 115 120 125
 Thr Ile Leu Glu Thr Gln Lys Val Glu Cys Ser His Ser Ala Lys Leu
 130 135 140
 Glu Gln Asp Ile Leu Glu Lys Glu Ser Ile Ile Leu Lys Leu Glu Arg
 145 150 155 160
 20 Asn Leu Lys Glu Phe Gln Glu His Leu Gln Asp Ser Val Lys Asn Thr
 165 170 175
 Lys Asp Leu Asn Val Lys Glu Leu Lys Leu Lys Glu Glu Ile Thr Gln
 180 185 190
 Leu Thr Asn Asn Leu Gln Asp Met Lys His Leu Leu
 195 200

<210> 1116

<211> 92

<212> PRT

30 <213> Homo sapiens

<400> 1116

Val Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly Lys
 1 5 10 15
 35 Xaa Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His Gly
 20 25 30
 Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp Lys His
 35 40 45
 Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln Asn
 40 50 55 60
 Gln Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp Arg Leu
 65 70 75 80
 Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys
 85 90

<210> 1117

<211> 224

<212> PRT

50 <213> Homo sapiens

<400> 1117

Gly Asn Ser Ser Leu Asn Ser Thr Ser Asn Thr Lys Val Ser Ala Val
 1 5 10 15
 55 Pro Thr Asn Met Ala Ala Lys Lys Thr Ser Thr Pro Lys Ile Asn Phe
 20 25 30
 Val Gly Gly Asn Lys Leu Gln Ser Thr Gly Asn Lys Ala Glu Asp Thr
 35 40 45
 Lys Gly Thr Glu Cys Val Lys Ser Thr Pro Val Thr Ser Ala Val Gln
 50 55 60
 60 Ile Pro Glu Val Lys Gln Asp Thr Val Ser Glu Pro Val Thr Pro Ala
 65 70 75 80
 Ser Leu Ala Ala Leu Gln Ser Asp Val Gln Pro Val Gly His Asp Tyr
 85 90 95

Val Glu Glu Val Arg Asn Asp Glu Gly Lys Val Ile Arg Phe His Cys
 100 105 110
 Lys Leu Cys Glu Cys Ser Phe Asn Asp Pro Asn Ala Lys Glu Met His
 115 120 125
 5 Leu Lys Gly Arg Arg His Arg Leu Gln Tyr Lys Lys Lys Val Asn Pro
 130 135 140
 Asp Leu Gln Val Glu Val Lys Pro Ser Ile Arg Xaa Arg Lys Ile Gln
 145 150 155 160
 Glu Glu Lys Met Arg Lys Gln Met Xaa Lys Glu Glu Tyr Trp Arg Xaa
 165 170 175
 10 Xaa Lys Glu Lys Gly Ala Leu Glu Asn Gly Asn Glu Thr Xaa Xaa Lys
 180 185 190
 Arg His Val Leu Glu Glu Asn Gly Xaa Arg Thr Thr Leu Phe Gly Met
 195 200 205
 15 Ile Ala Xaa Asn Ala Xaa Xaa Arg Xaa Ser His Xaa Pro Xaa Gly His
 210 215 220

<210> 1118
 <211> 161
 20 <212> PRT
 <213> Homo sapiens

<400> 1118
 Glu Arg Cys Gly Ala Ala Arg Phe Ala Cys Lys Cys Ile Thr Lys Arg
 1 5 10 15
 Gln Pro Arg Met Lys Lys Ala Ser Arg Ser Val Gly Ser Val Pro Lys
 20 25 30
 Val Ser Ala Ile Ser Lys Thr Gln Thr Ala Glu Lys Ile Lys Pro Glu
 35 40 45
 30 Asn Ser Ser Ser Ala Ser Thr Gly Gly Lys Leu Val Lys Pro Gly Thr
 50 55 60
 Ala Ala Ser Leu Ser Lys Thr Lys Ser Ser Asp Leu Leu Ala Gly
 65 70 75 80
 Met Ala Gly Gly Val Thr Val Thr Asn Gly Val Lys Gly Lys Lys Ser
 85 90 95
 35 Thr Cys Pro Ser Ala Ala Pro Ser Ala Ser Ala Pro Ala Met Thr Thr
 100 105 110
 Val Glu Asn Lys Ser Lys Ile Ser Thr Gly Thr Ala Ser Ser Thr Lys
 115 120 125
 40 Arg Ser Thr Ser Thr Gly Gln Gly Ala Asn Asp Met Ala Leu Ala Lys
 130 135 140
 Arg Ser Arg Ser Arg Thr Ala Thr Glu Cys Asp Val Arg Met Ser Lys
 145 150 155 160
 Ser

<210> 1119
 <211> 185
 <212> PRT
 50 <213> Homo sapiens

<400> 1119
 Leu Ile Glu Ala Glu Gly Ile Glu Asp Ile Glu Lys Glu Asp Ile Glu
 1 5 10 15
 55 Ser Gln Glu Ile Glu Ala Gln Glu Gly Glu Asp Asp Thr Phe Leu Thr
 20 25 30
 Ala Gln Asp Gly Glu Glu Glu Glu Asn Glu Lys Asp Ile Ala Gly Ser
 35 40 45
 Gly Asp Gly Thr Gln Glu Val Ser Lys Pro Leu Pro Ser Glu Gly Ser
 50 55 60
 60 Leu Ala Glu Ala Asp His Thr Ala His Glu Glu Met Glu Ala His Thr
 65 70 75 80
 Thr Val Lys Glu Ala Glu Asp Asp Asn Ile Ser Val Thr Ile Gln Ala

85 90 95
 Glu Asp Ala Ile Thr Leu Asp Phe Asp Gly Asp Asp Leu Leu Glu Thr
 100 105 110
 Gly Lys Asn Val Lys Ile Thr Asp Ser Glu Ala Ser Lys Pro Lys Asp
 115 120 125
 5 Gly Gln Asp Ala Ile Ala Gln Ser Pro Glu Lys Glu Ser Lys Asp Tyr
 130 135 140
 Glu Met Asn Ala Asn His Lys Asp Gly Lys Lys Glu Asp Cys Val Lys
 145 150 155 160
 10 Gly Asp Pro Val Glu Lys Glu Ala Arg Glu Ser Ser Xaa Lys Ala Glu
 165 170 175
 Ser Gly Asp Gln Arg Lys Xaa Tyr Phe
 180 185

15 <210> 1120
 <211> 236
 <212> PRT
 <213> Homo sapiens

20 <400> 1120
 Lys Gln Val Ser Gln Lys Met Gly Arg Xaa Ala Ile Xaa Xaa Ser Pro
 1 5 10 15
 Xaa Lys Glu Ser Lys Asp Tyr Glu Met Asn Ala Xaa His Lys Asp Gly
 20 25 30
 25 Lys Lys Glu Asp Cys Val Lys Gly Asp Pro Val Glu Lys Glu Ala Arg
 35 40 45
 Glu Ser Ser Lys Lys Ala Glu Ser Gly Asp Lys Glu Lys Asp Thr Leu
 50 55 60
 Lys Lys Gly Pro Ser Ser Thr Gly Ala Xaa Gly Gln Ala Lys Ser Ser
 65 70 75 80
 30 Ser Lys Glu Ser Lys Asp Ser Lys Thr Ser Ser Lys Asp Xaa Lys Gly
 85 90 95
 Ser Xaa Ser Ser Thr Ser Gly Ser Ser Xaa Ser Ser Thr Lys Asn Xaa
 100 105 110
 35 Trp Val Ser Gly Leu Ser Ser Asn Thr Lys Ala Ala Asp Leu Lys Asn
 115 120 125
 Leu Phe Gly Lys Tyr Gly Lys Val Leu Ser Ala Lys Val Val Thr Asn
 130 135 140
 Ala Arg Ser Pro Gly Ala Lys Cys Tyr Gly Ile Val Thr Met Ser Ser
 145 150 155 160
 40 Ser Thr Glu Val Ser Arg Cys Ile Ala His Xaa His Arg Thr Glu Leu
 165 170 175
 His Gly Gln Leu Ile Ser Val Glu Lys Val Lys Gly Asp Pro Ser Lys
 180 185 190
 45 Lys Glu Met Lys Lys Glu Asn Asp Glu Lys Ser Ser Ser Arg Ser Ser

Gly Asp Lys Lys Asn Thr Ser Asp Arg Ser Ser Lys Thr Gln Ala Ser
 210 215 220
 Val Lys Lys Glu Glu Lys Arg Ser Ser Glu Lys Xaa
 50 225 230 235

<210> 1121
 <211> 205
 <212> PRT
 55 <213> Homo sapiens

<400> 1121
 Ser Gly Cys Gly Ala Pro Ala Ala Gly Ala Gly Pro Arg Gly Ala Glu
 1 5 10 15
 60 Leu Gly Ser Gly Ala Gln Ala Val Pro Arg Gly Ala Met Lys Gly Lys
 20 25 30
 Glu Glu Lys Glu Gly Gly Ala Arg Leu Gly Ala Gly Gly Ser Pro
 35 40 45

Glu Lys Ser Pro Ser Ala Gln Glu Leu Lys Glu Gln Gly Asn Arg Leu
 50 55 60
 Phe Val Gly Arg Lys Tyr Pro Glu Ala Ala Cys Tyr Gly Arg Ala
 65 70 75 80
 5 Ile Thr Arg Asn Pro Leu Val Ala Val Tyr Tyr Thr Asn Arg Ala Leu
 85 90 95
 Cys Tyr Leu Lys Met Gln Gln His Glu Gln Ala Leu Ala Asp Cys Arg
 100 105 110
 Arg Ala Leu Glu Leu Asp Gly Gln Ser Val Lys Ala His Phe Phe Leu
 115 120 125
 10 Gly Gln Cys Gln Leu Glu Met Glu Ser Tyr Asp Glu Ala Ile Ala Asn
 130 135 140
 Leu Gln Arg Ala Tyr Ser Leu Ala Lys Glu Gln Arg Leu Asn Phe Gly
 145 150 155 160
 15 Asp Asp Ile Pro Ser Ala Leu Arg Ile Ala Lys Xaa Lys Arg Trp Asn
 165 170 175
 Ser Ile Glu Glu Arg Arg Ile His Gln Glu Ser Glu Leu Xaa Phe Tyr
 180 185 190
 Xaa Phe Xaa Leu Ile Ala Xaa Asp Arg Xaa Lys Glu Thr
 195 200 205
 20

<210> 1122

<211> 136

<212> PRT

25 <213> Homo sapiens

<400> 1122

Phe Pro Arg Lys Arg Glu Arg Lys Xaa Lys Xaa Cys Gln Gly Asn His
 1 5 10 15
 30 Glu Gly Tyr Glu Asp Asp Lys Pro Arg Pro Gly Pro Ser Arg Leu Ala
 20 25 30
 Leu Arg Pro Ser Thr Thr Ser Thr Trp Arg Thr Trp Thr Ser Phe Phe
 35 40 45
 Phe Gln Val Asp Glu Arg Gly Arg Ser Glu Thr Ser Pro Thr Tyr Leu
 50 55 60
 35 Cys Gly Lys Ile Ser Phe Glu Pro Met Arg Glu Pro Cys Ile Thr Pro
 65 70 75 80
 Ser Gly Ile Thr Tyr Asp Arg Lys Asp Ile Glu Glu His Leu Gln Arg
 85 90 95
 40 Val Gly His Phe Asp Pro Val Thr Arg Ser Pro Leu Thr Gln Glu Gln
 100 105 110
 Leu Ile Pro Asn Leu Ala Met Lys Glu Val Ile Asp Ala Phe Ile Ser
 115 120 125
 Glu Asn Gly Trp Val Glu Asp Tyr
 130 135
 45

<210> 1123

<211> 206

<212> PRT

50 <213> Homo sapiens

<400> 1123

Asn Leu Lys Gly Ile Leu Glu Glu Ser Pro Ser Glu Ala Glu Asp Phe
 1 5 10 15
 55 Ile Ser Gly Ile Thr Gln Thr Met Val Glu Ala Val Ala Glu Val Glu
 20 25 30
 Lys Asn Glu Thr Val Ser Glu Ile Leu Pro Ser Thr Cys Ile Val Thr
 35 40 45
 Leu Val Pro Gly Ile Pro Thr Gly Asp Glu Lys Thr Val Asp Lys Lys
 50 55 60
 60 Asn Ile Ser Glu Lys Lys Gly Asn Met Asp Glu Lys Glu Glu Lys Glu
 65 70 75 80
 Phe Asn Thr Lys Glu Thr Arg Met Asp Leu Gln Ile Gly Thr Glu Lys

85 90 95
 Ala Glu Lys Asn Glu Gly Arg Met Asp Ala Glu Lys Val Glu Lys Met
 100 105 110
 5 Ala Ala Met Lys Glu Lys Pro Ala Glu Asn Thr Leu Phe Lys Ala Tyr
 115 120 125
 Pro Asn Lys Gly Val Gly Gln Ala Asn Lys Pro Asp Glu Thr Ser Lys
 130 135 140
 Thr Ser Ile Leu Ala Val Ser Asp Val Ser Ser Ser Lys Pro Ser Ile
 145 150 155 160
 10 Lys Ala Val Ile Val Ser Ser Pro Lys Ala Lys Ala Thr Val Ser Lys
 165 170 175
 Thr Glu Asn Gln Lys Ser Phe Pro Lys Ser Val Pro Arg Asp Gln Ile
 180 185 190
 15 Asn Ala Glu Lys Lys Leu Ser Ala Gln Xaa Ile Trp Ser Ala
 195 200 205

 <210> 1124
 <211> 94
 <212> PRT
 20 <213> Homo sapiens

 <400> 1124
 Gln Leu Asn Ser Thr Gln Arg Glu Leu Glu Leu Glu Asn Ser Ala Ile
 1 5 10 15
 25 Arg Lys Ser Cys Cys Ala Glu Pro Ala Lys Gly Glu Glu Ala Phe Gln
 20 25 30
 Met Ser Glu Val Asp Glu Glu Ser Gly Leu Lys Asp Ser Glu Pro Glu
 35 40 45
 Arg Lys Arg Lys Lys Thr Glu Asp Ser Ser Ser Gly Lys Ser Val Ala
 50 55 60
 30 Ser Asp Val Pro Glu Glu Leu Asp Phe Leu Asp Leu Arg Leu Asp Ser
 65 70 75 80
 Ser Val Gln Phe Val Pro Ser Ser Thr Gln Val Lys Lys Gln
 85 90
 35
 <210> 1125
 <211> 237
 <212> PRT
 <213> Homo sapiens
 40
 <400> 1125
 Arg Pro Gly Lys Arg Arg Cys Gly Val Gly Cys Phe Pro Glu Ala Gly
 1 5 10 15
 45 Leu Asn Gly Ser Arg Leu Ser His Arg Val Ser Ser Pro Pro Ser Pro
 20 25 30
 Asn Gln Glu Ile Ala Arg Glu Arg Cys Gly Ala Ala Arg Phe Ala Cys
 35 40 45
 Lys Cys Ile Thr Lys Arg Gln Pro Arg Met Lys Lys Ala Ser Arg Ser
 50 55 60
 Val Gly Ser Val Pro Lys Val Ser Ala Ile Ser Lys Thr Gln Thr Ala
 65 70 75 80
 Glu Lys Ile Lys Pro Glu Asn Ser Ser Ser Ala Ser Thr Gly Gly Lys
 85 90 95
 55 Leu Val Lys Pro Gly Thr Ala Ala Ser Leu Ser Lys Thr Lys Ser Ser
 100 105 110
 Asp Asp Leu Leu Ala Gly Met Ala Gly Gly Val Thr Val Thr Asn Gly
 115 120 125
 Val Lys Gly Lys Lys Ser Thr Cys Pro Ser Ala Ala Pro Ser Ala Ser
 130 135 140
 60 Ala Pro Ala Met Thr Thr Val Glu Asn Lys Ser Lys Ile Ser Thr Gly
 145 150 155 160
 Thr Xaa Ser Ser Thr Lys Arg Ser Thr Xaa Thr Gly Asn Lys Glu Ser
 165 170 175

Ser Ser Thr Arg Glu Arg Leu Arg Glu Arg Thr Arg Leu Asn Gln Ser
 180 185 190
 Lys Lys Leu Pro Xaa Ala Gly Xaa Gly Ala Asn Asp Met Ala Phe Gly
 195 200 205
 5 Gln Thr Xaa Xaa Gln Leu Asn Xaa Phe Gln Asn Val Thr Phe Arg Xaa
 210 215 220
 Xaa Gln Xaa Leu Ser Gln Thr Ile Xaa Asn Pro Val Xaa
 225 230 235

10 <210> 1126
 <211> 195
 <212> PRT
 <213> Homo sapiens

15 <400> 1126
 Leu Asn Glu Ile Tyr Thr Lys Thr Asp Ser Lys Ser Ile Met Arg Met
 1 5 10 15
 Lys Ser Gly Gln Met Phe Ala Lys Glu Asp Leu Lys Arg Lys Lys Leu
 20 25 30
 20 Val Arg Asp Gly Ser Val Phe Leu Lys Asn Ala Ala Gly Arg Leu Lys
 35 40 45
 Glu Val Gln Ala Val Leu Leu Thr Asp Ile Leu Val Phe Leu Gln Glu
 50 55 60
 Lys Asp Gln Lys Tyr Ile Phe Ala Ser Leu Asp Gln Lys Ser Thr Val
 25 65 70 75 80
 Ile Ser Leu Lys Lys Leu Ile Val Arg Glu Val Ala His Glu Glu Lys
 85 90 95
 Gly Leu Phe Leu Ile Ser Met Gly Met Thr Asp Pro Glu Met Val Glu
 100 105 110
 30 Val His Ala Ser Ser Lys Glu Glu Arg Asn Ser Trp Ile Gln Ile Ile
 115 120 125
 Gln Asp Thr Ile Asn Thr Leu Asn Arg Asp Glu Asp Glu Gly Ile Pro
 130 135 140
 Ser Glu Asn Glu Glu Glu Lys Lys Met Leu Asp Thr Arg Pro Arg Glu
 35 145 150 155 160
 Leu Lys Glu His Phe Pro Glu Gly Gln Lys Ile Ser Leu Val Glu Arg
 165 170 175
 Arg Asn Asp Phe Pro Xaa Trp Leu Met His Pro Leu Ser Arg Asp Trp
 180 185 190
 40 Ser His Pro
 195

 <210> 1127
 <211> 160
 45 <212> PRT
 <213> Homo sapiens

 <400> 1127
 Glu Glu Gly Arg Ala Leu His Asp Gly Ile Ala Ile Ala Tyr Ala Thr
 1 5 10 15
 Leu Glu Tyr Phe Ile Arg Asp Val Lys Ser Leu Thr Leu Phe Val Thr
 20 25 30
 His Tyr Pro Pro Val Cys Glu Leu Glu Lys Asn Tyr Ser His Gln Val
 35 40 45
 55 Gly Asn Tyr His Met Gly Phe Leu Val Ser Glu Asp Glu Ser Lys Leu
 50 55 60
 Asp Pro Gly Thr Ala Glu Gln Val Pro Asp Phe Val Thr Phe Leu Tyr
 65 70 75 80
 Gln Ile Thr Arg Gly Ile Ala Ala Arg Ser Tyr Gly Leu Asn Val Ala
 60 85 90 95
 Lys Leu Ala Asp Val Pro Gly Glu Ile Leu Lys Lys Ala Ala His Lys
 100 105 110
 Ser Lys Glu Leu Glu Gly Leu Ile Asn Thr Lys Arg Lys Arg Leu Lys

115 120 125
 Tyr Phe Ala Lys Leu Trp Thr Met His Asn Ala Gln Asp Leu Gln Lys
 130 135 140
 Trp Thr Glu Glu Phe Asn Met Glu Glu Thr Gln Thr Ser Leu Leu His
 5 145 150 155 160

 <210> 1128
 <211> 82
 <212> PRT
 10 <213> Homo sapiens

 <400> 1128
 Ile Pro Ser Leu Gln Glu Glu Ala Lys Lys Gln Ile Glu Asp Leu Asn
 1 5 10 15
 15 Met Thr Leu Glu Lys Leu Arg Ser Asp Leu Asp Glu Lys Glu Thr Glu
 20 25 30
 Arg Ser Asp Met Lys Glu Thr Ile Phe Glu Leu Glu Asp Glu Val Glu
 35 40 45
 Gln His Arg Ala Val Lys Leu His Asp Asn Leu Ile Ile Ser Asp Leu
 20 50 55 60
 Glu Asn Thr Gly Lys Lys Leu Gln Xaa Pro Lys Xaa Asp Met Gly Lys
 65 70 75 80
 Arg Asn

 25
 <210> 1129
 <211> 414
 <212> PRT
 30 <213> Homo sapiens

 <400> 1129
 Ser Arg Thr Arg Thr Ser Asp Arg Leu Asn Arg Ile Ala Asn Gln Val
 1 5 10 15
 35 Ala Ile Gln Arg Lys Lys Gln Phe Val Glu Arg Ala His Ser Tyr Trp
 20 25 30
 Leu Leu Lys Arg Leu Ser Arg Asn Gly Ala Pro Leu Leu Arg Arg Leu
 35 40 45
 Gln Ser Ser Leu Gln Ser Gln Arg Ser Ser Gln Gln Arg Glu Asn Asp
 50 55 60
 40 Glu Glu Met Lys Ala Ala Lys Glu Lys Leu Lys Tyr Trp Gln Arg Leu
 65 70 75 80
 Arg His Asp Leu Glu Arg Ala Arg Leu Leu Ile Glu Leu Leu Arg Lys
 85 90 95
 Arg Glu Lys Leu Lys Arg Glu Gln Val Lys Val Glu Gln Val Ala Met
 45 100 105 110
 Glu Leu Arg Leu Thr Pro Leu Thr Val Leu Leu Arg Ser Val Leu Asp
 115 120 125
 Gln Leu Gln Asp Lys Asp Pro Ala Arg Ile Phe Ala Gln Pro Val Ser
 130 135 140
 50 Leu Lys Glu Val Pro Asp Tyr Leu Asp His Ile Lys His Pro Met Asp
 145 150 155 160
 Phe Ala Thr Met Arg Lys Arg Leu Glu Ala Gln Gly Tyr Lys Asn Leu
 165 170 175
 His Glu Phe Glu Glu Asp Phe Asp Leu Ile Ile Asp Asn Cys Met Lys
 55 180 185 190
 Tyr Asn Ala Arg Asp Thr Val Phe Tyr Arg Ala Ala Val Arg Leu Arg
 195 200 205
 Asp Gln Gly Gly Val Val Leu Arg Gln Ala Arg Arg Glu Val Asp Ser
 210 215 220
 60 Ile Gly Leu Glu Glu Ala Ser Gly Met His Leu Pro Glu Arg Pro Ala
 225 230 235 240
 Ala Ala Pro Arg Arg Pro Phe Ser Trp Glu Asp Val Asp Arg Leu Leu
 245 250 255

Asp Pro Ala Asn Arg Ala His Leu Gly Leu Glu Glu Gln Leu Arg Glu
 260 265 270
 Leu Leu Asp Met Leu Asp Leu Thr Cys Ala Met Lys Ser Ser Gly Ser
 275 280 285
 5 Arg Ser Lys Arg Ala Lys Leu Leu Lys Lys Glu Ile Ala Leu Leu Arg
 290 295 300
 Asn Lys Leu Ser Gln Gln His Ser Gln Pro Leu Pro Thr Gly Pro Gly
 305 310 315 320
 Leu Glu Gly Phe Glu Glu Asp Gly Ala Ala Leu Gly Pro Gly Gly Gly
 325 330 335
 10 Arg Arg Ser Pro Ser Glu Val Gly Asp Ser Ser Ala Ala Lys Glu Lys
 340 345 350
 Val Ala Glu His Met Arg Arg Leu Xaa Xaa Trp Arg Arg Ser Xaa Xaa
 355 360 365
 15 Glu Lys Arg Leu Asp Ala Gly Leu His Gln Xaa Leu Leu Gly Cys Xaa
 370 375 380
 Glu Pro Thr Xaa Asn Pro Ala Gly Gly Leu Gly Gly Gly Arg Pro His
 385 390 395 400
 20 Pro Asp Asp Leu Gly Pro Ser Ser Ser Arg Phe Ser Phe Lys
 405 410

<210> 1130

<211> 178

<212> PRT

25 <213> Homo sapiens

<400> 1130

Ile Val Glu Arg Glu Ser Gly His Tyr Val Glu Met His Ala Arg Tyr
 1 5 10 15
 30 Ile Gly Thr Thr Val Phe Val Arg Gln Val Gly Arg Tyr Leu Thr Leu
 20 25 30
 Ala Ile Arg Met Pro Glu Asp Leu Ala Met Ser Tyr Glu Glu Ser Gln
 35 40 45
 35 Asp Leu Gln Leu Cys Val Asn Gly Cys Pro Leu Ser Glu Arg Ile Asp
 50 55 60
 Asp Gly Gln Gly Gln Val Ser Ala Ile Leu Gly His Ser Leu Pro Arg
 65 70 75 80
 Thr Ser Leu Val Gln Ala Trp Pro Gly Tyr Thr Leu Glu Thr Ala Asn
 85 90 95
 40 Thr Gln Cys His Glu Lys Met Pro Val Lys Asp Ile Tyr Phe Gln Ser
 100 105 110
 Cys Val Phe Asp Leu Leu Thr Thr Gly Asp Ala Asn Phe Thr Ala Ala
 115 120 125
 45 Ala His Ser Ala Leu Glu Asp Val Glu Ala Leu His Pro Arg Lys Glu
 130 135 140
 Arg Trp His Ile Phe Pro Ser Ser Gly Asn Gly Thr Pro Arg Gly Gly
 145 150 155 160
 Ser Asp Leu Ser Val Ser Leu Gly Leu Thr Cys Leu Ile Leu Ile Val
 165 170 175
 50 Phe Leu

<210> 1131

<211> 118

55 <212> PRT

<213> Homo sapiens

<400> 1131

Ala Gly Arg Arg His Arg Thr Gly Asn Arg Cys Pro Ser Leu Ala Ser
 1 5 10 15
 60 Ser His Gly Ile Glu Cys Trp Gln Ser Pro Val Cys Ser Gln Ala Arg
 20 25 30
 Pro Ala Pro Arg Arg Cys Glu Ala Gly Cys Val Pro Gly Trp Gln Thr

35 40 45
 Pro Gly Pro Ala Arg His Arg Cys Val His Ser Gly Gly Ser Arg Ser
 50 55 60
 Arg Thr Ala Ala Gly Pro Gly Ser Pro Arg Arg Thr Trp Pro Gly Leu
 5 65 70 75 80
 Gln Ala Tyr Gly Trp Gln Gly Ser Gly Ser Asp Pro Pro Ala Ala Gln
 85 90 95
 Thr Leu Trp Ser Leu Tyr Ser Gly Arg Ala Ser Pro His Ser Gly His
 100 105 110
 10 Ser Pro Phe Pro Arg Tyr
 115

<210> 1132

<211> 166

15 <212> PRT

<213> Homo sapiens

<400> 1132

20 Thr Asp Arg Gln Ile Thr Ala Ser Thr Gly Ser Pro Ile Ala Thr Ala
 1 5 10 15
 Gly Glu Asn Val Pro Ala Phe Leu Pro Trp Val Gln Gly Leu His Ile
 20 25 30
 Leu Gln Gly Thr Val Gly Cys Gly Ser Lys Val Gly Ile Thr Ser Gly
 35 40 45
 25 Glu Gln Val Glu Asp Thr Gly Leu Glu Ile Asp Val Leu His Trp His
 50 55 60
 Leu Leu Met Ala Leu Ser Val Gly Ser Leu Gln Cys Val Ala Arg Pro
 65 70 75 80
 Gly Leu His Gln Gly Ala Arg Gln Ala Val Ser Gln Asp Gly Arg
 85 90 95
 30 His Leu Ala Leu Pro Val Ile Asp Ala Phe Thr Gln Gly Ala Ala Val
 100 105 110
 His Ala Gln Leu Gln Val Leu Ala Leu Leu Val Gly His Gly Gln Val
 115 120 125
 35 Phe Arg His Thr Asp Gly Lys Gly Gln Val Ala Thr His Leu Pro His
 130 135 140
 Lys His Cys Gly Pro Tyr Ile Ala Gly Val His Leu His Ile Val Ala
 145 150 155 160
 Thr Leu Pro Phe His Asp
 165
 40

<210> 1133

<211> 365

45 <212> PRT

<213> Homo sapiens

<400> 1133

Ser Ala His Ser Arg Leu Ala Ala Arg His Tyr Ser Gly Pro Gly Pro
 1 5 10 15
 50 Ala Pro Ala Arg Pro Arg Arg Arg Gln Phe Arg Leu Lys Lys Leu Ile
 20 25 30
 Asp Gln Glu Ile Lys Ser Gln Glu Glu Lys Glu Gln Glu Lys Glu Lys
 35 40 45
 Arg Val Thr Thr Leu Lys Glu Glu Leu Thr Lys Leu Lys Ser Phe Ala
 50 55 60
 55 Leu Met Val Val Asp Glu Gln Gln Arg Leu Thr Ala Gln Leu Thr Leu
 65 70 75 80
 Gln Arg Gln Lys Ile Gln Glu Leu Thr Thr Asn Ala Lys Glu Thr His
 85 90 95
 60 Thr Lys Leu Ala Leu Ala Glu Ala Arg Val Gln Glu Glu Glu Gln Lys
 100 105 110
 Ala Thr Arg Leu Glu Lys Glu Leu Gln Thr Gln Thr Thr Lys Phe His
 115 120 125

Gln Asp Gln Asp Thr Ile Met Ala Lys Leu Thr Asn Glu Asp Ser Gln
 130 135 140
 Asn Arg Gln Leu Gln Gln Lys Leu Ala Ala Leu Ser Arg Gln Ile Asp
 145 150 155 160
 5 Glu Leu Glu Glu Thr Asn Arg Ser Leu Arg Lys Ala Glu Glu Glu Leu
 165 170 175
 Gln Asp Ile Lys Glu Lys Ile Ser Lys Gly Glu Tyr Gly Asn Ala Gly
 180 185 190
 10 Ile Met Ala Glu Val Glu Glu Leu Arg Lys Arg Val Leu Asp Met Glu
 195 200 205
 Gly Lys Asp Glu Glu Leu Ile Lys Met Glu Glu Gln Cys Arg Asp Leu
 210 215 220
 Asn Lys Arg Leu Glu Arg Glu Thr Leu Gln Ser Lys Asp Phe Lys Leu
 225 230 235 240
 15 Glu Val Glu Lys Leu Ser Lys Arg Ile Met Ala Leu Glu Lys Leu Glu
 245 250 255
 Asp Ala Phe Asn Lys Ser Lys Gln Glu Cys Tyr Ser Leu Lys Cys Asn
 260 265 270
 20 Leu Glu Lys Glu Arg Met Thr Thr Lys Gln Leu Ser Gln Glu Leu Glu
 275 280 285
 Ser Leu Lys Val Arg Ile Lys Glu Leu Glu Ala Ile Glu Ser Arg Leu
 290 295 300
 Glu Lys Thr Glu Phe Thr Leu Lys Glu Asp Leu Thr Lys Leu Lys Thr
 305 310 315 320
 25 Leu Thr Val Met Phe Val Asp Glu Arg Lys Thr Met Ser Glu Lys Leu
 325 330 335
 Lys Lys Thr Glu Asp Lys Leu Gln Ala Ala Ser Ser Gln Leu Gln Val
 340 345 350
 30 Glu Gln Asn Lys Val Thr Thr Val Thr Glu Lys Val Asn
 355 360 365

 <210> 1134
 <211> 221
 <212> PRT
 35 <213> Homo sapiens

 <400> 1134
 Ser Gly Lys Met Ala Lys Val Ser Glu Leu Tyr Asp Val Thr Trp Glu
 1 5 10 15
 40 Glu Met Arg Asp Lys Met Arg Lys Trp Arg Glu Glu Asn Ser Arg Asn
 20 25 30
 Ser Glu Gln Ile Val Glu Val Gly Glu Glu Leu Ile Asn Glu Tyr Ala
 35 40 45
 45 Ser Lys Leu Gly Asp Asp Ile Trp Ile Ile Tyr Glu Gln Val Met Ile
 50 55 60
 Ala Ala Leu Asp Tyr Gly Arg Asp Asp Leu Ala Leu Phe Cys Leu Gln
 65 70 75 80
 Glu Leu Arg Arg Gln Phe Pro Gly Ser His Arg Val Lys Arg Leu Thr
 85 90 95
 50 Gly Met Arg Phe Glu Ala Met Glu Arg Tyr Asp Asp Ala Ile Gln Leu
 100 105 110
 Tyr Asp Arg Ile Leu Gln Glu Asp Pro Thr Asn Thr Ala Ala Arg Lys
 115 120 125
 Arg Lys Ile Ala Ile Arg Lys Ala Gln Gly Lys Asn Val Glu Ala Ile
 130 135 140
 55 Arg Glu Leu Asn Glu Tyr Leu Glu Gln Phe Val Gly Asp Gln Glu Ala
 145 150 155 160
 Trp His Glu Leu Ala Glu Leu Tyr Ile Asn Glu His Asp Tyr Ala Lys
 165 170 175
 60 Ala Ala Phe Cys Leu Glu Glu Leu Met Met Thr Asn Pro His Asn His
 180 185 190
 Leu Tyr Cys Gln Gln Tyr Ala Glu Val Lys Tyr Thr Gln Gly Gly Leu
 195 200 205

Glu Thr Leu Glu Leu Ser Arg Lys Phe Leu His Arg His
 210 215 220

5 <210> 1135
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1135
 10 Arg Glu Leu Glu Pro Ala Glu Phe Glu Thr Met Leu Leu Phe Cys Pro
 1 5 10 15
 Gly Cys Gly Asn Gly Leu Ile Val Glu Glu Gly Gln Arg Cys His Arg
 20 25 30
 Phe Ala Cys Asn Thr Cys Pro Tyr Val His Asn Ile Thr Arg Lys Val
 35 40 45
 15 Thr Asn Arg Lys Tyr Pro Lys Leu Lys Glu Val Asp Asp Val Leu Gly
 50 55 60
 Gly Ala Ala Ala Trp Glu Asn Val Asp Ser Thr Ala Glu Ser Cys Pro
 65 70 75 80
 20 Lys Cys Glu His Pro Arg Ala Tyr Phe Met Gln Leu Gln Thr Arg Ser
 85 90 95
 Ala Asp Glu Pro Met Thr Thr Phe Tyr Lys Cys Cys Asn Ala Gln Cys
 100 105 110
 Gly His Arg Trp Arg Asp
 115
 25

<210> 1136
 <211> 126
 <212> PRT
 30 <213> Homo sapiens

<400> 1136
 Gly Ser Trp Ala Ile Leu Ala Leu Ile Pro Pro Ala Val Ser Thr Leu
 1 5 10 15
 35 Ser Ile Ala Ala Leu Val Glu Gly Gly His Arg Leu Ile Cys Arg Ala
 20 25 30
 Gly Leu Lys Leu His Glu Val Ser Thr Arg Met Phe Ala Phe Gly Thr
 35 40 45
 Arg Leu Cys Ser Arg Val Asn Ile Leu Pro Gly Ser Cys Ser Thr Lys
 50 55 60
 40 His Ile Ile His Phe Phe Gln Phe Trp Val Leu Pro Ile Cys Tyr Leu
 65 70 75 80
 Ala Gly Asp Val Val His Val Gly Ala Arg Val Ala Gly Glu Ala Val
 85 90 95
 45 Ala Ala Leu Ser Leu Leu His Asp Gln Pro Val Pro Ala Ala Gly Ala
 100 105 110
 Glu Gln Gln His Gly Leu Glu Leu Arg Arg Leu Gln Leu Pro
 115 120 125

50 <210> 1137
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 1137
 Ser Leu Arg Phe Tyr Leu Ser Leu Gly Gln Leu Tyr Leu Ser Met Asn
 1 5 10 15
 Ile Asp Asp Lys Leu Glu Gly Leu Phe Leu Lys Cys Gly Gly Ile Asp
 20 25 30
 60 Glu Met Gln Ser Ser Arg Thr Met Val Val Met Gly Gly Val Ser Gly
 35 40 45
 Gln Ser Thr Val Ser Gly Glu Leu Gln Asp Ser Val Leu Gln Asp Arg
 50 55 60

Ser Met Pro His Gln Glu Ile Leu Ala Ala Asp Glu Val Leu Gln Glu
 65 70 75 80
 Ser Glu Met Arg Gln Gln Asp Met Ile Ser His Asp Glu Leu Met Val
 85 90 95
 5 His Glu Glu Thr Val Lys Asn Asp Glu Glu Gln Met Glu Thr His Glu
 100 105 110
 Arg Leu Pro Gln Gly Leu Gln Tyr Ala Leu Asn Val Pro Ile Ser Val
 115 120 125
 Lys Gln Glu Ile Thr Phe Thr Asp Val Ser Glu Gln Leu Met Arg Asp
 10 130 135 140
 Lys Lys Gln Ile Arg Glu Pro Val Asp Leu Gln Lys Lys Lys Arg
 145 150 155 160
 Lys Gln Arg Ser Pro Ala Lys Ile Leu Thr Ile Asn Glu Asp Gly Ser
 165 170 175
 15 Leu Gly Leu Lys Thr Pro Lys Ser His Val Cys Glu His Cys Asn Ala
 180 185 190
 Ala Phe Arg Thr Asn Tyr Pro Tyr Arg Asp Met Ser Ser Ser Tyr Arg
 195 200 205

 20 <210> 1138
 <211> 121
 <212> PRT
 <213> Homo sapiens

 25 <400> 1138
 Lys Arg Arg Leu Gln Gly Lys Glu Cys Cys Arg Val Glu Lys Glu Ile
 1 5 10 15
 Met Val Glu Phe Leu Pro Phe Ile Gly Phe Arg Asn Pro Gln Tyr His
 20 25 30
 30 Leu Asn His Leu Cys His Pro Ile Pro Pro Leu Asn Thr Leu Gly Lys
 35 40 45
 Arg Pro Ser Arg Gln Xaa Thr Cys Leu Asn Phe Gln Ala Xaa Asp Ser
 50 55 60
 Ser Leu Tyr Pro Arg Ala Gly Ala Glu Ser Arg Gly His Arg Xaa Gln
 35 65 70 75 80
 Ala Ala Ala Ala Pro Thr Phe Xaa Gly Ala Leu Arg Gly Gly Glu Gly
 85 90 95
 Gly Arg Gly Glu Asn Phe Cys Cys Gly Ser Phe Gly Asn Ser Ser His
 100 105 110
 40 Pro Xaa Ala Phe Leu Leu Phe Leu Pro
 115 120

 <210> 1139
 <211> 178
 45 <212> PRT
 <213> Homo sapiens

 <400> 1139
 Arg Ser Lys Gly Cys Asp Cys Cys Gly Glu Lys Ser Gln Pro Gln Glu
 50 1 5 10 15
 Lys Ser Leu Ile Gly Leu Lys Asn Thr Glu Asn Asn Asp Val Glu Ile
 20 25 30
 Ser Glu Thr Lys Lys Ala Asp Val Gln Ala Pro Val Ser Pro Ser Glu
 35 40 45
 55 Thr Ser Gln Ala Asn Pro Tyr Ser Glu Gly Gln Phe Leu Asp Glu His
 50 55 60
 His Ser Val Asn Phe His Leu Gly Leu Lys Glu Asp Asn Asp Thr Ile
 65 70 75 80
 Asn Asp Ser Leu Ile Val Ser Glu Thr Lys Ser Lys Glu Asn Thr Met
 60 85 90 95
 Gln Glu Ser Leu Pro Ser Gly Ile Val Asn Phe Arg Glu Glu Ile Cys
 100 105 110
 Asp Met Asp Ser Ser Glu Ala Met Ser Leu Glu Ser Gln Glu Ser Pro

115 120 125
 Asn Glu Asn Phe Lys Thr Val Gly Pro Cys Leu Gly Asp Ser Lys Asn
 130 135 140
 Val Ser Gln Glu Ser Leu Glu Thr Lys Glu Glu Lys Pro Glu Glu Thr
 5 145 150 155 160
 Pro Lys Met Glu Leu Ser Leu Glu Asn Val Leu Leu Lys Glu Met His
 165 170 175
 Val Lys

 10
 <210> 1140
 <211> 187
 <212> PRT
 <213> Homo sapiens

 15
 <400> 1140
 Phe Leu Asn Leu Arg Gly Asp Ile Gly Ser His Trp Leu Gln Phe Lys
 1 5 10 15
 Leu Leu Thr Glu Ile Ser Ser Ala Val Phe Ile Leu Thr Asp Asn Ile
 20 20 25 30
 Ser Lys Lys Glu Tyr Lys Leu Leu Tyr Ser Met Lys Glu Ser Thr Thr
 35 40 45
 Lys Tyr Tyr Phe Ile Leu Ser Pro Tyr Arg Gly Lys Arg Asn Thr Asn
 50 55 60
 25 Leu Arg Phe Leu Asn Lys Leu Ile Pro Val Leu Lys Ile Asp His Ser
 65 70 75 80
 His Val Leu Val Lys Val Ser Ser Thr Asp Ser Asp Ser Phe Val Lys
 85 90 95
 Arg Ile Arg Ala Ile Val Gly Asn Val Leu Arg Ala Pro Cys Arg Arg
 100 105 110
 30 Val Ser Val Glu Asp Met Ala His Ala Ala Arg Lys Leu Gly Leu Lys
 115 120 125
 Val Asp Glu Asp Cys Glu Glu Cys Gln Lys Ala Lys Asp Arg Met Glu
 130 135 140
 35 Arg Ile Thr Arg Lys Ile Lys Asp Ser Asp Ala Tyr Xaa Lys Asp Gln
 145 150 155 160
 Leu Arg Leu Xaa Gly Asp Pro Trp Arg Lys Ala Ala Gln Val Glu Lys
 165 170 175
 Glu Phe Cys Asn Phe Ser Gly Pro Trp Pro Pro
 180 185
 40
 <210> 1141
 <211> 145
 <212> PRT
 <213> Homo sapiens

 45
 <400> 1141
 Lys Trp Xaa Val Pro Ile Arg His Glu Lys Pro Ser Lys Xaa Gln Arg
 1 5 10 15
 50 Phe Xaa Ser Xaa Xaa Gln Gln Val Leu Lys Xaa Glu Ser Asp Xaa Thr
 20 25 30
 Asp Gln Phe Lys Arg Cys Tyr Gln Glu Tyr Xaa Ser Pro Gln Gly Arg
 35 40 45
 Xaa Thr Ser Ser Ser Leu Xaa Cys Xaa Ser Ser Cys Gln Gly Ser Cys
 50 55 60
 Gly Val Gly Pro Leu Xaa Ser Cys Xaa Leu Ser Leu Ala Pro Gly Val
 65 70 75 80
 Gly Ala Ala Ser Leu Val Thr Ala Gly Pro Gly Gly Gln Val Val Pro
 85 90 95
 60 Gly Xaa Arg Trp Gly Ser Cys Pro Glu Glu Ala Glu Val Gly Leu Ala
 100 105 110
 Pro Ala Gln Pro Lys Gly Leu Gln Trp Thr Ser Ile Gln Asp Val Ser
 115 120 125

Ala Arg Gly Val Gln Gly Thr Pro Met Ala Pro Tyr Leu Leu Thr Asp
 - 130 135 140

Leu
 145

5

<210> 1142
 <211> 67
 <212> PRT
 <213> Homo sapiens

10

<400> 1142

Xaa His Phe Xaa Phe Leu Thr Leu Val Xaa Xaa Asn Xaa Xaa Thr Phe
 1 5 10 15
 Xaa Phe Cys Ser Ala Ser His Val Glu Trp Ala Pro Xaa Ile Phe Lys
 20 25 30
 Xaa Pro Lys His Lys Pro His Met Gly Ala Pro Phe Lys Lys Xaa Val
 35 40 45
 Gly His Xaa Xaa Thr Phe Leu Asn Leu Xaa Thr Gly Val Phe Leu Asp
 50 55 60
 Xaa Leu Lys
 65

20

<210> 1143
 <211> 149
 <212> PRT
 <213> Homo sapiens

25

<400> 1143

Glu Asn Glu Val Lys Leu Leu Val Glu Arg Met Met Ala Leu Gln Thr
 1 5 10 15
 Asp Ile Val Asp Leu Gln Arg Ser Pro Met Gly Arg Lys Gln Gly Gly
 20 25 30
 Thr Leu Asp Asp Leu Glu Glu Gln Ala Arg Glu Leu Tyr Arg Arg Leu
 35 40 45
 Arg Glu Lys Pro Arg Asp Gln Arg Thr Glu Gly Asp Ser Gln Glu Met
 50 55 60
 Val Arg Leu Leu Leu Gln Ala Ile Gln Ser Phe Glu Lys Lys Val Arg
 65 70 75 80
 Val Ile Tyr Thr Gln Leu Ser Lys Thr Val Val Cys Lys Gln Lys Ala
 85 90 95
 Leu Glu Leu Leu Pro Lys Val Glu Glu Val Val Ser Leu Met Asn Glu
 100 105 110
 Asp Glu Lys Thr Val Val Arg Leu Gln Glu Lys Arg Gln Lys Glu Leu
 115 120 125
 Trp Asn Leu Leu Lys Ile Ala Cys Thr Arg Ser Val Val Leu Ser Val
 130 135 140
 Glu Thr Pro Ile Ala
 145

50

<210> 1144
 <211> 126
 <212> PRT
 <213> Homo sapiens

55

<400> 1144

His Pro Arg Pro Ala Arg Cys Pro Leu Val Thr Pro Thr Pro Thr Glu
 1 5 10 15
 Leu Glu Arg Leu Arg Leu Arg Ser Arg Pro Val Tyr Gly Val Cys Pro
 20 25 30
 Val Tyr Glu Asp Val Pro Ala Arg Asn Glu Arg Ile Tyr Val Tyr Glu
 35 40 45
 Asn Lys Lys Glu Ala Phe Ala Ser Cys Gln Asp Asp Gln Arg Val Arg
 50 55 60

445

Phe Lys Ala Phe Ser Pro Xaa Lys Thr Leu Lys Asn Leu Xaa Lys Glu
 65 70 75 80
 Phe Val Asn Ile Ser Xaa Ser Asn Lys Thr Ser Leu His Xaa Phe Cys
 85 90 95
 5 Glu Asn Asn Phe Thr Leu Phe Asn Asp Lys Leu Lys Xaa Val Gly Leu
 100 105 110
 Xaa Asn Lys Thr Ala Pro Xaa Ala Ser Asp Ser Ser Lys Ile
 115 120 125

 10 <210> 1145
 <211> 152
 <212> PRT
 <213> Homo sapiens

 15 <400> 1145
 Arg Pro Ala Ala Pro Ala Ser Gly Glu Met Thr Met Asp Ala Leu Leu
 1 5 10 15
 Ala Arg Leu Lys Leu Leu Asn Pro Asp Asp Leu Arg Glu Glu Ile Val
 20 25 30
 Lys Ala Gly Leu Lys Cys Gly Pro Ile Thr Ser Thr Thr Arg Phe Ile
 35 40 45
 Phe Glu Lys Lys Leu Ala Gln Ala Leu Leu Glu Gln Gly Gly Arg Leu
 50 55 60
 Ser Ser Phe Tyr His His Glu Ala Gly Val Thr Ala Leu Ser Gln Asp
 25 65 70 75 80
 Pro Gln Arg Ile Leu Lys Pro Ala Glu Gly Asn Pro Thr Asp Gln Ala
 85 90 95
 Gly Phe Ser Glu Asp Arg Asp Phe Gly Tyr Ser Val Gly Leu Asn Pro
 100 105 110
 30 Pro Glu Glu Glu Ala Val Thr Ser Lys Thr Cys Ser Val Pro Pro Ser
 115 120 125
 Asp Thr Asp Thr Tyr Arg Ala Gly Ala Thr Ala Ser Lys Glu Pro Pro
 130 135 140
 Cys Leu Trp Gly Val Ser Ser Val
 35 145 150

 <210> 1146
 <211> 176
 <212> PRT
 40 <213> Homo sapiens

 <400> 1146
 Pro Arg Gly Ala Phe Met Gln Leu Ile Thr Val Ala Glu Gly Phe Ser
 1 5 10 15
 45 Gln Asp Leu Gly Cys Asp His Ile Leu Val Ile Asp Ser Gly Gly Leu
 20 25 30
 Ile Gly Gly Ala Leu Thr Ser Ala Gly Asp Arg Phe Glu Leu Glu Ala
 35 40 45
 Ser Leu Ala Thr Leu Leu Met Gly Leu Ser Asn Val Thr Val Ile Ser
 50 50 55 60
 Leu Ala Glu Thr Lys Asp Ile Pro Ala Ala Ile Leu His Ala Phe Leu
 65 70 75 80
 Arg Leu Glu Lys Thr Gly His Met Pro Asn Tyr Gln Phe Val Tyr Gln
 85 90 95
 55 Asn Leu His Asp Val Ser Val Pro Gly Pro Arg Pro Arg Asp Lys Arg
 100 105 110
 Gln Leu Leu Asp Pro Pro Gly Asp Leu Ser Arg Ala Ala Gln Met
 115 120 125
 Glu Lys Gln Gly Asp Gly Phe Arg Ala Leu Ala Gly Leu Ala Phe Cys
 60 130 135 140
 Asp Pro Glu Asn Asn Thr Ser Gly Thr Ser Ser Leu Trp His Gly His
 145 150 155 160
 Leu His Gly Arg Ser Glu Leu Trp Pro Thr Val Lys Pro Tyr Leu Asn

165 170 175

<210> 1147
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1147

Met Phe Leu Phe Trp Phe Asp Xaa Xaa Phe Leu Met Phe Ser Ser Arg
 1 5 10 15
 Ile Ser Ser Ile Gln Ile Trp Phe His Cys Arg Pro Lys Leu Thr Ala
 20 25 30
 Ala Met Glu Val Ser Val Pro Gln Ala Gly Cys Ala Arg Cys Val Val
 35 40 45
 Leu Arg Val Ala Glu Gly Gln Ala Cys Gln Cys Pro Glu Ala Val Ala
 50 55 60
 Leu Phe Leu His Leu Gly Cys Ser Pro Ala Gln Val Thr Arg Trp Ile
 65 70 75 80
 Gln Glu Leu Ser Leu Val Ser Gly Pro Arg Ala Gly Asn Arg Tyr Ile
 85 90 95
 Met Lys Val Leu Val Tyr Lys Leu Val Val Gly His Val Pro Arg Phe
 100 105 110
 Phe

<210> 1148
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1148

Glu Asp Glu Gln Lys Thr Glu Gly Leu Glu Ser Pro Gln Thr Val Phe
 1 5 10 15
 Lys Xaa Xaa Ser Asp Leu Thr Asp Gln Leu Gln Arg Cys Tyr Gln Glu
 20 25 30
 Tyr Xaa Ser Pro Gln Gly Arg Glu Thr Ser Ser Ser Leu Xaa Cys Xaa
 35 40 45
 Ser Ser Cys Gln Gly Ser Cys Gly Val Gly Pro Leu Tyr Ser Cys Ser
 50 55 60
 Xaa Ser Leu Ala Pro Gly Val Gly Ala Ala Ser Leu Val Thr Ala Gly
 65 70 75 80
 Pro Gly Gly Gln Val Val Pro Gly Xaa Arg Trp Gly Ser Cys Pro Xaa
 85 90 95
 Glu Ala Xaa Val Gly Leu Ala Pro Ala Gln Pro Lys Gly Leu Gln Trp
 100 105 110
 Thr Ser Ile Gln Asp Val Ser Ala Arg Gly Val Gln Gly Thr Pro Met
 115 120 125
 Xaa Pro Tyr Leu Leu Thr Asp Leu
 130 135

<210> 1149
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1149

Glu Gly Phe Leu Trp Xaa Thr Pro Phe Leu Met Gly Xaa Pro Asn Gly
 1 5 10 15
 Gly Val Val Xaa Leu Xaa Pro Xaa Lys Arg Ala Gly Ala Pro Ile Arg
 20 25 30
 His Glu Lys Thr Ser Lys Arg Gln Arg Val Trp Ser Leu Leu Lys Gln
 35 40 45
 Cys Leu Lys Xaa Xaa Val Thr Ser Gln Thr Ser Phe Arg Asp Val Thr

[illegible]

65 70 75 80
 Leu Lys Gln Pro Arg Cys Phe Val Leu Met Asp His Ile Leu Asn Leu
 85 90 95
 5 Lys Ile Val His Ile Leu Asn Met Thr Ser Ala Lys Ile Ile Ser Phe
 100 105 110
 Leu Leu Pro Pro Asp Glu Ser Leu His Ser Leu Gln Ser Arg Ile Glu
 115 120 125
 Arg Glu Thr Gly Ile Asn Thr Gly Ser Gln Glu Leu Leu Ser Glu Thr
 130 135 140
 10 Gly Ile Ser Leu Asp Pro Arg Lys Pro Ala Ser Gln Cys Val Leu Asp
 145 150 155 160
 Gly Val Arg Gly Cys Asp Ser Tyr Met Xaa Tyr Leu Phe Asp Lys Lys
 165 170 175

 15 <210> 1153
 <211> 217
 <212> PRT
 <213> Homo sapiens

 20 <400> 1153
 Glu Ile Val Glu Pro Glu Leu Ser Ile Glu Val Cys Glu Glu Lys Ala
 1 5 10 15
 Ser Ala Val Leu Pro Pro Thr Cys Ile Gln Leu Leu Asp Ser Ser Asn
 20 25 30
 25 Trp Lys Glu Arg Leu Ala Cys Met Glu Glu Phe Gln Lys Ala Val Glu
 35 40 45
 Leu Met Asp Arg Thr Glu Met Pro Cys Gln Ala Leu Val Arg Met Leu
 50 55 60
 Ala Lys Lys Pro Gly Trp Lys Glu Thr Asn Phe Gln Val Met Gln Met
 30 65 70 75 80
 Lys Leu His Ile Val Ala Leu Ile Ala Gln Lys Gly Asn Phe Ser Lys
 85 90 95
 Thr Ser Ala Gln Val Val Leu Asp Gly Leu Val Asp Lys Ile Gly Asp
 100 105 110
 35 Val Lys Cys Gly Asn Asn Ala Lys Glu Ala Met Thr Ala Ile Ala Glu
 115 120 125
 Ala Cys Met Leu Pro Trp Thr Ala Glu Gln Val Val Ser Met Ala Phe
 130 135 140
 Ser Gln Lys Asn Pro Lys Asn Gln Ser Glu Thr Leu Asn Trp Leu Ser
 40 145 150 155 160
 Asn Ala Ile Lys Glu Phe Gly Phe Ser Gly Leu Asn Val Lys Ala Phe
 165 170 175
 Ile Asn Asn Val Lys Thr Ala Leu Ala Ala Thr Asn Pro Ala Val Arg
 180 185 190
 45 Thr Ala Ala Ile Thr Leu Leu Gly Val Met Tyr Leu Tyr Val Xaa Pro
 195 200 205
 Ser Phe Ala Lys Trp Ser Phe Xaa Gly
 210 215

 50 <210> 1154
 <211> 261
 <212> PRT
 <213> Homo sapiens

 55 <400> 1154
 Gly Leu Lys Val Leu Lys Gly Ile Leu Xaa Pro His Gly Asp Glu Ser
 1 5 10 15
 Ile Glu Gln Leu Lys Thr Gln Met Ser Ser Cys Val Ala Lys Trp Leu
 20 25 30
 60 Gln Asp Glu Met Phe His Ser Asp Phe Gln His His Asn Lys Ala Leu
 35 40 45
 Ala Val Met Val Asp His Leu Glu Ser Glu Lys Glu Gly Val Ile Gly
 50 55 60

Cys Leu Asp Leu Ile Leu Lys Trp Leu Thr Leu Arg Phe Phe Asp Thr
 65 70 75 80
 Asn Thr Ser Val Leu Met Lys Ala Leu Glu Tyr Leu Lys Leu Leu Phe
 85 90 95
 5 Thr Leu Leu Ser Glu Glu Glu Tyr His Leu Thr Glu Asn Glu Ala Ser
 100 105 110
 Ser Phe Ile Pro Tyr Leu Val Val Lys Val Gly Glu Pro Lys Asp Val
 115 120 125
 10 Ile Arg Lys Asp Val Arg Ala Ile Leu Asn Arg Met Cys Leu Val Tyr
 130 135 140
 Pro Ala Ser Lys Met Phe Pro Phe Ile Met Glu Gly Thr Lys Ser Lys
 145 150 155 160
 Asn Ser Lys Gln Arg Ala Glu Cys Leu Glu Glu Leu Gly Cys Leu Val
 165 170 175
 15 Glu Ser Tyr Gly Met Asn Val Cys Gln Pro Thr Pro Gly Lys Ala Leu
 180 185 190
 Lys Glu Ile Ala Val His Ile Gly Asp Arg Asp Asn Ala Val Arg Asn
 195 200 205
 20 Ala Ala Leu Asn Thr Ile Val Thr Val Tyr Asn Val His Gly Asp Gln
 210 215 220
 Val Phe Lys Leu Ile Gly Asn Leu Ser Glu Lys Asp Met Ser Met Leu
 225 230 235 240
 Glu Ser Thr Ser Arg Ala Ala Ala Gly Pro Ser Ile Phe His Pro Gly
 245 250 255
 25 Gly Tyr Gln Val Ser
 260

<210> 1155
 <211> 174
 30 <212> PRT
 <213> Homo sapiens

<400> 1155
 Thr Glu Pro Cys Arg Thr Ala Glu Asn Cys Thr Ala Thr Met Ser Glu
 1 5 10 15
 35 Asn Asn Lys Asn Ser Leu Glu Ser Ser Leu Arg Gln Leu Lys Cys His
 20 25 30
 Phe Thr Trp Asn Leu Met Glu Gly Glu Asn Ser Leu Asp Asp Phe Glu
 35 40 45
 40 Asp Lys Val Phe Tyr Arg Thr Glu Phe Gln Asn Arg Glu Phe Lys Ala
 50 55 60
 Thr Met Cys Asn Leu Leu Ala Tyr Leu Lys His Leu Lys Gly Gln Asn
 65 70 75 80
 Glu Ala Ala Leu Glu Cys Leu Arg Lys Ala Glu Glu Leu Ile Gln Gln
 85 90 95
 45 Glu His Ala Asp Gln Ala Glu Ile Arg Ser Leu Val Thr Trp Gly Asn
 100 105 110
 Tyr Ala Trp Val Tyr Tyr His Met Gly Arg Leu Ser Asp Val Gln Ile
 115 120 125
 50 Tyr Val Asp Lys Val Lys His Val Cys Glu Lys Phe Ser Ser Pro Tyr
 130 135 140
 Arg Ile Glu Ser Pro Glu Leu Asp Cys Glu Glu Gly Trp Thr Arg Leu
 145 150 155 160
 Lys Cys Gly Gly Asn Gln Asn Glu Arg Ala Lys Val Cys Phe
 165 170
 55

<210> 1156
 <211> 211
 <212> PRT
 60 <213> Homo sapiens

<400> 1156
 Ala Ala Ala Ala Thr Thr Ala Phe Gly Cys Arg Ile Trp Asn Pro Cys

1 5 10 15
 Ala Ala Leu Thr Met Lys Gln Ser Ser Asn Val Pro Ala Phe Leu Ser
 20 25 30
 5 Lys Leu Trp Thr Leu Val Glu Glu Thr His Thr Asn Glu Phe Ile Thr
 35 40 45
 Trp Ser Gln Asn Gly Gln Ser Phe Leu Val Leu Asp Glu Gln Arg Phe
 50 55 60
 Ala Lys Glu Ile Leu Pro Lys Tyr Phe Lys His Asn Asn Met Ala Ser
 65 70 75 80
 10 Phe Val Arg Gln Leu Asn Met Tyr Gly Phe Arg Lys Val Val His Ile
 85 90 95
 Asp Ser Gly Ile Val Lys Gln Glu Arg Asp Gly Pro Val Glu Phe Gln
 100 105 110
 15 His Pro Tyr Phe Lys Gln Gly Gln Asp Asp Leu Leu Glu Asn Ile Lys
 115 120 125
 Arg Lys Val Ser Ser Ser Lys Pro Glu Glu Asn Lys Ile Arg Gln Glu
 130 135 140
 Asp Leu Thr Lys Ile Ile Ser Ser Ala Gln Lys Val Gln Ile Lys Gln
 145 150 155 160
 20 Glu Thr Ile Glu Ser Arg Leu Ser Glu Leu Lys Ser Glu Asn Glu Ser
 165 170 175
 Leu Trp Xaa Glu Xaa Ser Glu Phe Gln Gln Lys His Xaa Gln Gln Gln
 180 185 190
 25 Gln Val Ile Xaa Lys Asn Val Ser Leu Leu Val His Trp Phe Lys Ile
 195 200 205
 Thr Gln Leu
 210
 <210> 1157
 30 <211> 231
 <212> PRT
 <213> Homo sapiens
 <400> 1157
 35 Arg Gln Asp Leu Tyr Ser Ala Arg Asp Leu Gln Gly Leu Thr Val Glu
 1 5 10 15
 His Ala Ile Asp Ser Phe Arg Glu Gly Glu Thr Met Ile Leu Thr Leu
 20 25 30
 40 Lys Asp Lys Gly Val Leu Gln Glu Glu Glu Asp Val Leu Val Asn Val
 35 40 45
 Asn Leu Val Asp Lys Glu Arg Ala Glu Lys Asn Val Glu Leu Arg Lys
 50 55 60
 Lys Lys Pro Asp Tyr Leu Pro Tyr Ala Glu Asp Glu Ser Val Asp Asp
 65 70 75 80
 45 Leu Ala Gln Gln Lys Pro Arg Ser Ile Leu Ser Lys Tyr Asp Glu Glu
 85 90 95
 Leu Glu Gly Glu Arg Pro His Ser Phe Arg Leu Glu Gln Gly Gly Thr
 100 105 110
 50 Ala Asp Gly Leu Arg Glu Arg Glu Leu Glu Glu Ile Arg Ala Lys Leu
 115 120 125
 Arg Leu Gln Ala Gln Ser Leu Ser Thr Val Gly Pro Arg Leu Ala Ser
 130 135 140
 Glu Tyr Leu Thr Pro Glu Glu Met Val Thr Phe Lys Lys Thr Lys Arg
 145 150 155 160
 55 Arg Val Lys Lys Ile Arg Lys Lys Glu Lys Glu Val Val Val Arg Ala
 165 170 175
 Asp Asp Leu Leu Pro Leu Gly Asp Gln Thr Gln Asp Gly Asp Phe Gly
 180 185 190
 60 Phe Lys Leu Xaa Gly Thr Gly Ser Pro Pro Lys Cys Pro Lys Xaa Glu
 195 200 205
 Glu Glu Glu Arg Thr Phe Ala Leu Xaa Pro Xaa Arg Arg Thr Thr Pro
 210 215 220
 Arg Ser Gly Arg Thr Leu Asp

225 230


```

      <210> 1158
      <211> 76
5     <212> PRT
      <213> Homo sapiens

      <400> 1158
Ser Leu Arg Phe Tyr Leu Ser Leu Gly Gln Leu Tyr Leu Ser Met Asn
10   1          5          10          15
Ile Asp Asp Lys Leu Glu Gly Leu Phe Leu Lys Cys Gly Gly Ile Xaa
      20          25          30
Xaa Met Gln Ser Ser Arg Thr Met Val Xaa Met Gly Gly Val Ser Xaa
      35          40          45
15   Xaa Leu Leu Cys Xaa Gly Lys Leu Pro Gly Phe Xaa Thr Xaa Lys Ile
      50          55          60
Glu Xaa Xaa Pro Xaa Xaa Glu Asp Pro Cys Cys Xaa
65           70           75

20       <210> 1159
      <211> 148
      <212> PRT
      <213> Homo sapiens

25       <400> 1159
Thr Ser Arg Xaa Met Xaa Pro Cys Pro Ser Ile Ala Phe Asp Pro Gly
1    1          5          10          15
Met Asn Phe Xaa Leu Arg Thr Thr Pro Asp Lys Ser His Phe Gly Leu
      20          25          30
30   Ile Val Gly Asp Ser Gln His Ser Phe Pro Phe Ser Gly Asp Glu Thr
      35          40          45
Asn His Val Xaa Ala Thr Ser Thr Gln Asp Phe Xaa Asp Gln Val Thr
      50          55          60
35   Ser Gln Lys Lys Ala Glu Ala Gln Pro Val His Gln Ala Tyr Gln Met
65           70           75           80
Ser Ser Phe Glu Gln Pro Phe Arg Ala Pro Tyr His Gly Ser Arg Ala
      85          90          95
Gly Ile Ala Thr Gln Phe Ser Thr Ala Asn Gly Gln Val Asn Leu Arg
      100         105         110
40   Gly Pro Gly Thr Ser Ala Glu Phe Ser Glu Phe Pro Leu Val Asn Val
      115         120         125
Asn Asp Asn Arg Ala Gly Met Thr Ser Ser Pro Asp Ala Thr Thr Gly
      130         135         140
45   Gln Thr Phe Gly
      145

      <210> 1160
      <211> 217
50    <212> PRT
      <213> Homo sapiens

      <400> 1160
Ser Leu Pro Ala Ser Phe Ser Pro Leu Val Pro Ser Thr Ser Cys Glu
55   1          5          10          15
Gly Ile His Leu Cys Ala Glu Leu Leu Gly Thr Met Ala Ser Leu Ser
      20          25          30
Leu Ala Pro Val Asn Ile Phe Lys Ala Gly Ala Asp Glu Glu Arg Ala
      35          40          45
60   Glu Thr Ala Arg Leu Thr Ser Phe Ile Gly Ala Ile Ala Ile Gly Asp
      50          55          60
Leu Val Lys Ser Thr Leu Gly Pro Lys Gly Met Asp Lys Ile Leu Leu
65           70           75           80
Ser Ser Gly Arg Asp Ala Ser Leu Met Val Thr Asn Asp Gly Ala Thr

```

85 90 95
 Ile Leu Lys Asn Ile Gly Val Asp Asn Pro Ala Ala Lys Val Leu Val
 100 105 110
 5 Asp Met Ser Arg Val Gln Asp Asp Glu Val Gly Asp Gly Thr Thr Ser
 115 120 125
 Val Thr Val Leu Ala Ala Glu Leu Leu Arg Glu Ala Glu Ser Leu Ile
 130 135 140
 Ala Lys Lys Ile His Pro Gln Thr Ile Ile Ala Gly Trp Arg Glu Ala
 145 150 155 160
 10 Thr Lys Ala Ala Arg Xaa Ala Leu Leu Ser Ser Ala Val Asp His Gly
 165 170 175
 Ser His Glu Xaa Xaa Phe Arg Xaa Glu Leu Met Asn Ile Xaa Gly Pro
 180 185 190
 15 His Tyr Pro Gln Asn Phe Leu Leu Xaa Thr Lys Thr Thr Leu Gln Lys
 195 200 205
 Xaa Ala Val Xaa Xaa Val Leu Lys Leu
 210 215

20 <210> 1161
 <211> 226
 <212> PRT
 <213> Homo sapiens

<400> 1161
 25 Pro Asp Gln Leu Asp Pro Xaa Val Ala Arg Lys Leu Leu Xaa Lys Lys
 1 5 10 15
 Asn Pro Ser Cys Phe Pro Arg Arg Arg Ser Arg Leu Met Thr Leu
 20 25 30
 30 Thr Glu Val Ser Xaa Ser Met Lys Ala Phe Ile Ser Lys Val Ser Thr
 35 40 45
 Xaa Lys Gly Ala Glu Leu Pro Arg Glu Pro Phe Glu Ala Pro Ile Thr
 50 55 60
 Phe Asp Ala Asp Ser Phe Leu Asn Tyr Phe Asp Lys Ile Leu Gly Pro
 65 70 75 80
 35 Arg Pro Asn Glu Ser Asp Ser Asp Asp Leu Asp Asp Glu Asp Phe Glu
 85 90 95
 Cys Leu Asp Ser Asp Asp Asp Leu Asp Phe Glu Thr His Glu Pro Gly
 100 105 110
 40 Glu Glu Ala Ser Leu Lys Gly Thr Leu Asp Asn Leu Lys Ser Tyr Met
 115 120 125
 Ala Gln Met Asp Gln Glu Leu Ala His Thr Cys Ile Ser Lys Ser Phe
 130 135 140
 Thr Thr Arg Asn Gln Val Glu Pro Val Ser Gln Thr Thr Asp Asn Asn
 145 150 155 160
 45 Ser Asp Glu Glu Asp Xaa Gly Thr Gly Glu Ser Val Met Ala Pro Val
 165 170 175
 Asp Val Asp Leu Asn Leu Val Ser Asn Ile Leu Glu Ser Tyr Ser Ser
 180 185 190
 50 Gln Ala Gly Leu Ala Gly Pro Ala Ser Asn Leu Leu Gln Ser Met Gly
 195 200 205
 Val Gln Leu Pro Asp Asn Thr Asp His Arg Pro Thr Ser Lys Pro Thr
 210 215 220
 Lys Asn
 225

55 <210> 1162
 <211> 237
 <212> PRT
 <213> Homo sapiens

60 <400> 1162
 Glu Val Thr Arg Ser Leu Leu Gln Arg Trp Gly Ala Ser Phe Arg Arg
 1 5 10 15

Gly Ala Asp Phe Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Glu
 20 25 30
 Tyr Gln Ile Leu Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His
 35 40 45
 5 Asn Asn Ser Glu Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile
 50 55 60
 Ala Thr Cys Leu Glu Leu Arg Ser Ala Ala Leu Gln Ser Thr Gln Ser
 65 70 75 80
 10 Gln Glu Glu Phe Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu
 85 90 95
 Lys Asn Ile Leu Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro
 100 105 110
 Val Pro Leu Arg Arg Ile Leu Ala Pro Gly Glu Glu Glu Asn Leu Glu
 115 120 125
 15 Phe Glu Glu Asp Glu Glu Glu Gly Gly Ala Gly Ala Gly Ser Pro Asp
 130 135 140
 Ser Phe Pro Ala Arg Val Pro Gly Thr Leu Leu Pro Arg Leu Pro Ser
 145 150 155 160
 20 Glu Pro Gly Met Thr Leu Leu Thr Ile Arg Ile Glu Lys Ile Gly Leu
 165 170 175
 Lys Asp Ala Gly Gln Cys Ile Asp Pro Tyr Ile Thr Val Ser Val Lys
 180 185 190
 Asp Leu Asn Gly Ile Asn Leu Thr Pro Val Pro Arg Xaa Xaa Xaa Gly
 195 200 205
 25 Phe Lys Lys Lys Ile His Met Phe Ile Leu Met Xaa Gly His Trp
 210 215 220
 Ser Phe Gln Lys Xaa Cys Trp Xaa Lys Leu Thr Gln Lys
 225 230 235

 30 <210> 1163
 <211> 189
 <212> PRT
 <213> Homo sapiens

 35 <400> 1163
 Gly Ser Arg Phe Ser Ser Thr Leu Thr Gly Trp Leu Gly Gln Leu Arg
 1 5 10 15
 Arg Gly Ser Gln Leu Thr Met Gly Asp Pro Ser Lys Gln Asp Ile Leu
 20 25 30
 40 Thr Ile Phe Lys Arg Leu Arg Ser Val Pro Thr Asn Lys Val Cys Phe
 35 40 45
 Asp Cys Gly Ala Lys Asn Pro Ser Trp Ala Ser Ile Thr Tyr Gly Val
 50 55 60
 Phe Leu Cys Ile Asp Cys Ser Gly Ser His Arg Ser Leu Gly Val His
 65 70 75 80
 45 Leu Ser Phe Ile Arg Ser Thr Glu Leu Asp Ser Asn Trp Ser Trp Phe
 85 90 95
 Gln Leu Arg Cys Met Gln Val Gly Gly Asn Ala Ser Ala Ser Ser Phe
 100 105 110
 50 Phe His Gln His Gly Cys Ser Thr Asn Asp Thr Asn Ala Lys Tyr Asn
 115 120 125
 Ser Arg Ala Ala Gln Leu Tyr Arg Glu Lys Ile Lys Ser Leu Ala Ser
 130 135 140
 Gln Ala Thr Arg Lys His Gly Thr Asp Leu Trp Leu Asp Ser Cys Val
 145 150 155 160
 55 Val Pro Pro Leu Ser Pro Pro Pro Lys Glu Glu Asp Phe Phe Ala Ser
 165 170 175
 His Val Ser Ser Glu Val Ser Asp Thr Xaa Val Gly Ile
 180 185

 60 <210> 1164
 <211> 167
 <212> PRT

<213> Homo sapiens

<400> 1164

5 Gly Glu Asp Val Arg Gly Val Leu Lys Arg Arg Val Glu Thr Arg Gln
 1 5 10 15
 His Thr Xaa Glu Ala Ile Arg Gln Gln Glu Val Glu Gln Leu Asp Phe
 20 25 30
 Arg Asp Leu Leu Gly Lys Lys Val Ser Thr Lys Thr Leu Ser Glu Asp
 35 40 45
 10 Asp Leu Lys Glu Ile Pro Ala Glu Gln Met Asp Phe Arg Ala Asn Leu
 50 55 60
 Gln Arg Gln Val Lys Pro Lys Thr Val Ser Glu Glu Arg Lys Val
 65 70 75 80
 His Ser Pro Gln Gln Val Asp Phe Arg Ser Val Leu Ala Lys Lys Gly
 85 90 95
 15 Thr Ser Lys Thr Pro Val Pro Glu Lys Val Pro Pro Pro Lys Pro Ala
 100 105 110
 Thr Pro Asp Phe Arg Ser Val Leu Gly Gly Lys Lys Lys Leu Pro Ala
 115 120 125
 20 Glu Asn Gly Ser Ser Ser Ala Glu Thr Leu Asn Ala Lys Ala Val Glu
 130 135 140
 Ser Ser Lys Pro Leu Ser Asn Ala Gln Pro Ser Gly Pro Leu Lys Pro
 145 150 155 160
 Val Gly Asn Ala Gln Ala Cys
 165
 25

<210> 1165

<211> 242

<212> PRT

30 <213> Homo sapiens
 <400> 1165

Tyr Leu Gln Pro Thr Trp Asp Phe Asp Xaa Arg Gly His Ser Met Arg
 1 5 10 15
 35 Phe Xaa Asp Asp Ala Lys Asp Phe Ile Ser Ile Leu Leu Lys Lys Asp
 20 25 30
 Met Lys Thr Xaa Leu Asp Cys Thr Gln Cys Xaa Gln His Pro Trp Xaa
 35 40 45
 40 Met Lys Asp Xaa Xaa Glu His Gly Gly Gln Glu Thr Phe Gln Gly Xaa
 50 55 60
 Met Lys Lys Tyr Met Ala Arg Xaa Lys Trp Gln Lys Thr Gly Asn Ala
 65 70 75 80
 Val Arg Ala Ile Gly Arg Leu Ser Ser Met Ala Met Ile Ser Gly Leu
 85 90 95
 45 Ser Gly Arg Lys Ser Ser Thr Gly Ser Pro Thr Ser Pro Leu Asn Ala
 100 105 110
 Glu Lys Leu Glu Ser Glu Asp Val Ser Gln Ala Phe Leu Glu Ala Val
 115 120 125
 50 Ala Glu Glu Lys Pro His Val Lys Pro Tyr Phe Ser Lys Thr Ile Arg
 130 135 140
 Asp Leu Glu Val Val Glu Gly Ser Ala Ala Arg Phe Asp Cys Lys Ile
 145 150 155 160
 Glu Gly Tyr Pro Asp Pro Glu Val Xaa Trp Phe Lys Asp Asp Gln Ser
 165 170 175
 55 Ile Arg Glu Ser Arg His Phe Gln Ile Asp Tyr Asp Glu Asp Gly Asn
 180 185 190
 Cys Ser Leu Ile Ile Ser Asp Val Cys Gly Asp Asp Asp Ala Lys Tyr
 195 200 205
 60 Thr Cys Lys Ala Val Asn Ser Leu Gly Glu Ala Thr Cys Thr Ala Glu
 210 215 220
 Leu Ile Val Glu Thr Met Glu Glu Gly Glu Gly Glu Glu Glu Glu
 225 230 235 240
 Glu Glu

5 <210> 1166
 <211> 221
 <212> PRT
 <213> Homo sapiens

<400> 1166
 10 Ser Gly Lys Met Ala Lys Val Ser Glu Leu Tyr Asp Val Thr Trp Glu
 1 5 10 15
 Glu Met Arg Asp Lys Met Arg Lys Trp Arg Glu Glu Asn Ser Arg Asn
 20 25 30
 Ser Glu Gln Ile Val Glu Val Gly Glu Glu Leu Ile Asn Glu Tyr Ala
 35 40 45
 15 Ser Lys Leu Gly Asp Asp Ile Trp Ile Ile Tyr Glu Gln Val Met Ile
 50 55 60
 Ala Ala Leu Asp Tyr Gly Arg Asp Asp Leu Ala Leu Phe Cys Leu Gln
 65 70 75 80
 20 Glu Leu Arg Arg Gln Phe Pro Gly Ser His Arg Val Lys Arg Leu Thr
 85 90 95
 Gly Met Arg Phe Glu Ala Met Glu Arg Tyr Asp Asp Ala Ile Gln Leu
 100 105 110
 Tyr Asp Arg Ile Leu Gln Glu Asp Pro Thr Asn Thr Ala Ala Arg Lys
 115 120 125
 25 Arg Lys Ile Ala Ile Arg Lys Ala Gln Gly Lys Asn Val Glu Ala Ile
 130 135 140
 Arg Glu Leu Asn Glu Tyr Leu Glu Gln Phe Val Gly Asp Gln Glu Ala
 145 150 155 160
 30 Trp His Glu Leu Ala Glu Leu Tyr Ile Asn Glu His Asp Tyr Ala Lys
 165 170 175
 Ala Ala Phe Cys Leu Glu Glu Leu Met Met Thr Asn Pro His Asn His
 180 185 190
 Leu Tyr Cys Gln Gln Tyr Ala Glu Val Lys Tyr Thr Gln Xaa Gly Leu
 195 200 205
 35 Glu Asn Leu Asp Phe Gln Glu Ser Ile Leu His Arg His
 210 215 220

40 <210> 1167
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 1167
 45 His Val Leu Ser Leu Ser Phe Pro Ile Arg Arg Asp Asp Gly Ser Trp
 1 5 10 15
 Glu Val Ile Glu Gly Tyr Arg Ala Gln His Ser Gln His Arg Thr Pro
 20 25 30
 Cys Lys Gly Gly Ile Arg Tyr Ser Thr Asp Val Ser Val Asp Glu Val
 35 40 45
 50 Lys Ala Leu Ala Ser Leu Met Thr Tyr Lys Cys Ala Val Val Asp Val
 50 55 60
 Pro Phe Gly Gly Ala Lys Ala Gly Val Lys Ile Asn Pro Lys Asn Tyr
 65 70 75 80
 Thr Asp Asn Glu Leu Glu Lys Ile Thr Arg Arg Phe Thr Met Glu Leu
 85 90 95
 55 Ala Lys Lys Gly Phe Ile Gly Pro Gly Ile Asp Val Pro Ala Pro Asp
 100 105 110
 Met Ser Thr Gly Glu Arg Glu Met Ser Trp Ile Ala Asp Thr Tyr Ala
 115 120 125
 60 Ser Thr Ile Gly His Tyr Asp Ile Asn Ala His Ala Cys Val Thr Gly
 130 135 140
 Lys Pro Ile Ser Gln Gly Gly Ile His Gly Arg Ile Ser Ala Thr Gly
 145 150 155 160

Pro Trp Cys Leu Pro Trp Asp
165

5 <210> 1168
<211> 112
<212> PRT
<213> Homo sapiens

<400> 1168
10 Ile Phe Ile Ser Xaa Xaa Xaa Pro Tyr Phe Xaa Asn Lys Asp Leu Ser
1 5 10 15
Xaa Gln Xaa Tyr Xaa Ile Xaa Xaa Gly Asp Xaa Ser Ser Thr Ser Xaa
20 25 30
Xaa Leu Xaa Trp Xaa Ser Ala Xaa Asp Leu Thr Xaa Arg Xaa Xaa Xaa
15 35 40 45
Pro Ala Glu Xaa Ser His Gln Gly Xaa Gly Ile His Glu Glu Pro Glu
50 55 60
Ser Phe Phe Thr Trp Phe Thr Asp His Ser Asp Ala Gly Ala Asp Xaa
65 70 75 80
20 Leu Xaa Glu Val Xaa Lys Asp Asp Ile Trp Pro Asn Pro Leu Gln Xaa
85 90 95
Tyr Leu Val Pro Asp Met Asp Asp Glu Xaa Xaa Xaa Gly Glu Arg Arg
100 105 110

25 <210> 1169
<211> 67
<212> PRT
<213> Homo sapiens

<400> 1169
30 Thr His Ile Arg Tyr Asn Lys Ile Gly Val Val Lys Thr Met Ser Cys
1 5 10 15
Gly Asn Glu Phe Val Glu Thr Leu Lys Lys Ile Gly Tyr Pro Lys Ala
20 25 30
35 Asp Asn Leu Asn Gly Glu Asp Phe Asp Trp Leu Phe Glu Gly Val Glu
35 40 45
Xaa Glu Ser Phe Leu Lys Trp Phe Cys Gly Asn Val Asn Glu Gln Asn
50 55 60
Val Leu Ser
40 65

<210> 1170
<211> 208
<212> PRT
45 <213> Homo sapiens

<400> 1170
Glu Ser Ser Gly Thr Tyr Ile Val Asn Leu Glu Asn Leu Val Gln Glu
1 5 10 15
50 Leu Ser Gln Ser Asn Met Met Leu Xaa Lys Gln Leu Glu Met Leu Thr
20 25 30
Asp Pro Ser Val Ser Gln Gln Ile Asn Pro Arg Asn Thr Ile Asp Thr
35 40 45
Lys Asp Tyr Ser Thr His Arg Leu Tyr Gln Val Leu Glu Gly Glu Asn
55 50 55 60
Lys Lys Lys Glu Leu Phe Leu Thr His Gly Asn Leu Glu Glu Val Ala
65 70 75 80
Glu Lys Leu Lys Gln Asn Ile Ser Leu Val Gln Asp Gln Leu Ala Val
85 90 95
60 Ser Ala Gln Glu His Ser Phe Phe Leu Ser Lys Arg Asn Lys Asp Val
100 105 110
Asp Met Leu Cys Asp Thr Leu Tyr Gln Gly Gly Asn Gln Leu Leu Leu
115 120 125

Ser Asp Gln Glu Leu Thr Glu Gln Phe His Lys Val Glu Ser Gln Leu
 130 135 140
 Asn Lys Leu Asn His Leu Leu Thr Asp Ile Leu Ala Asp Val Lys Thr
 145 150 155 160
 5 Lys Arg Lys Thr Leu Ala Asn Asn Lys Leu His Gln Met Glu Arg Glu
 165 170 175
 Phe Tyr Val Tyr Phe Leu Lys Asp Glu Asp Tyr Leu Lys Asp Ile Val
 180 185 190
 Glu Asn Leu Glu Thr Gln Ser Lys Ile Lys Ala Val Ser Leu Glu Asp
 10 195 200 205

<210> 1171

<211> 227

<212> PRT

15 <213> Homo sapiens

<400> 1171

Arg Leu Tyr Asn Ser Ala Val Val Thr Met Pro Val Val Arg Lys Ile
 1 5 10 15
 20 Phe Arg Arg Arg Arg Gly Asp Ser Glu Ser Glu Glu Asp Glu Gln Asp
 20 25 30
 Ser Glu Glu Val Arg Leu Lys Leu Glu Glu Thr Arg Glu Val Gln Asn
 35 40 45
 25 Leu Arg Lys Arg Pro Asn Gly Val Ser Ala Val Ala Leu Leu Val Gly
 50 55 60
 Glu Lys Val Gln Glu Glu Thr Thr Leu Val Asp Asp Pro Phe Gln Met
 65 70 75 80
 Lys Thr Gly Gly Met Val Asp Met Lys Lys Leu Lys Glu Arg Gly Lys
 85 90 95
 30 Asp Lys Ile Ser Glu Glu Glu Asp Leu His Leu Gly Thr Ser Phe Ser
 100 105 110
 Ala Glu Thr Asn Arg Arg Asp Glu Asp Ala Asp Met Met Lys Tyr Ile
 115 120 125
 35 Glu Thr Glu Leu Lys Lys Arg Lys Gly Ile Val Glu His Glu Glu Gln
 130 135 140
 Lys Val Lys Pro Lys Asn Ala Glu Asp Cys Leu Tyr Glu Leu Pro Glu
 145 150 155 160
 Asn Ile Arg Val Ser Ser Ala Lys Lys Thr Glu Glu Met Leu Ser Asn
 165 170 175
 40 Gln Met Leu Ser Gly Ile Pro Glu Val Asp Leu Gly Ile Asp Ala Lys
 180 185 190
 Ile Lys Asn Ile Ile Xaa Thr Glu Asp Ala Lys Ala Arg Leu Leu Ala
 195 200 205
 45 Glu Xaa Arg Thr Arg Lys Lys Asp Arg Glu Thr Ser Leu Cys Leu Pro
 210 215 220
 Thr Trp Leu
 225

<210> 1172

50 <211> 209

<212> PRT

<213> Homo sapiens

<400> 1172

Glu Arg Leu Arg Asp Ile Tyr Arg Pro Pro Xaa Lys Phe Gly Ser Lys
 1 5 10 15
 Asn Leu Ser Gln Ser Asn Met Met Leu Xaa Lys Gln Leu Glu Met Leu
 20 25 30
 Thr Asp Pro Ser Val Ser Xaa Gln Ile Asn Pro Arg Asn Thr Ile Asp
 35 40 45
 60 Thr Lys Asp Tyr Ser Thr His Arg Leu Tyr Gln Val Leu Glu Gly Glu
 50 55 60
 Asn Lys Lys Lys Glu Leu Phe Leu Thr His Gly Asn Leu Glu Glu Val

[illegible]

20

```
<210> 1173
<211> 178
<212> PRT
<213> Homo sapiens
```

25

[illegible]

50

```
<210> 1174
<211> 166
<212> PRT
<213> Homo sapiens
```

55

<400> 1174
 Thr Asp Arg Gln Ile Thr Ala Ser Thr Gly Ser Pro Ile Ala Thr Ala
 1 5 10 15
 60 Gly Glu Asn Val Pro Ala Phe Leu Pro Trp Val Gln Gly Leu His Ile
 20 25 30
 Leu Gln Gly Thr Val Gly Cys Gly Ser Lys Val Gly Ile Thr Ser Gly
 35 40 45

Glu Gln Val Glu Asp Thr Gly Leu Glu Ile Asp Val Leu His Trp His
 50 55 60
 Leu Leu Met Ala Leu Ser Val Gly Ser Leu Gln Cys Val Ala Arg Pro
 65 70 75 80
 5 Gly Leu His Gln Gly Gly Ala Arg Gln Ala Val Ser Gln Asp Gly Arg
 85 90 95
 His Leu Ala Leu Pro Val Ile Asp Ala Phe Thr Gln Gly Ala Ala Val
 100 105 110
 His Ala Gln Leu Gln Val Leu Ala Leu Leu Val Gly His Gly Gln Val
 115 120 125
 10 Phe Arg His Thr Asp Gly Lys Gly Gln Val Ala Thr His Leu Pro His
 130 135 140
 Lys His Cys Gly Pro Tyr Ile Ala Gly Val His Leu His Ile Val Ala
 145 150 155 160
 15 Thr Leu Pro Phe His Asp
 165

<210> 1175
 <211> 118
 20 <212> PRT
 <213> Homo sapiens

<400> 1175
 Ala Gly Arg Arg His Arg Thr Gly Asn Arg Cys Pro Ser Leu Ala Ser
 1 5 10 15
 Ser His Gly Ile Glu Cys Trp Gln Ser Pro Val Cys Ser Gln Ala Arg
 20 25 30
 Pro Ala Pro Arg Arg Cys Glu Ala Gly Cys Val Pro Gly Trp Gln Thr
 35 40 45
 30 Pro Gly Pro Ala Arg His Arg Cys Val His Ser Gly Gly Ser Arg Ser
 50 55 60
 Arg Thr Ala Ala Gly Pro Gly Ser Pro Arg Arg Thr Trp Pro Gly Leu
 65 70 75 80
 Gln Ala Tyr Gly Trp Gln Gly Ser Gly Ser Asp Pro Pro Ala Ala Gln
 85 90 95
 35 Thr Leu Trp Ser Leu Tyr Ser Gly Arg Ala Ser Pro His Ser Gly His
 100 105 110
 Ser Pro Phe Pro Arg Tyr
 115

40 <210> 1176
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1176
 Lys Lys Cys Cys Leu His Met Leu Val Xaa Glu Thr Leu Ala Arg Arg
 1 5 10 15
 Ile Ser Gly His Thr Asn Met Trp Ile Gly Xaa Ser Cys Ser Glu Xaa
 20 25 30
 50 Ser Trp Gly Ser Leu Lys Arg Gly Lys Xaa Trp Phe Ser Xaa Met Leu
 35 40 45
 His Met Ala Xaa Phe Lys Arg Leu Lys Thr Phe Phe Cys Pro Leu Cys
 50 55 60
 55 Xaa Ala Trp Lys Leu Pro Pro Xaa Gln Cys Val Glu Xaa Leu Gln Arg
 65 70 75 80
 Asn Leu

60 <210> 1177
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1177
 Thr Gln Thr Tyr Xaa Asn Ser Ser Ile Xaa Phe Thr Ser Leu Ser Ser
 1 5 10 15
 5 Ile Cys Gln Lys Xaa Gly Val Ser Pro Asp Phe Phe Xaa Leu Gly Pro
 20 25 30
 Pro Xaa Xaa Lys Gln Ile Phe Thr Met Leu Leu Asn
 35 40

10 <210> 1178
 <211> 216
 <212> PRT
 <213> Homo sapiens

15 <400> 1178
 Leu Ser Glu Lys Phe Phe Lys Ala Ala Ser Asn Cys Gly Ile Val Glu
 1 5 10 15
 Ser Ile Leu Asn Trp Val Lys Phe Lys Ala Gln Thr Gln Leu Asn Lys
 20 25 30
 20 Lys Cys Ser Ser Val Lys Tyr Ser Lys Ile Lys Gly Ile Pro Lys Leu
 35 40 45
 Asp Asp Ala Asn Asp Ala Gly Gly Lys His Ser Leu Glu Cys Thr Leu
 50 55 60
 25 Ile Leu Thr Glu Gly Asp Ser Ala Lys Ser Leu Ala Val Ser Gly Leu
 65 70 75 80
 Gly Val Ile Gly Arg Asp Arg Tyr Gly Val Phe Pro Leu Arg Gly Lys
 85 90 95
 Ile Leu Asn Val Arg Glu Ala Ser His Lys Gln Ile Met Glu Asn Ala
 100 105 110
 30 Glu Ile Asn Asn Ile Ile Lys Ile Val Gly Leu Gln Tyr Lys Lys Ser
 115 120 125
 Tyr Asp Asp Ala Glu Ser Leu Lys Thr Leu Arg Tyr Gly Lys Ile Met
 130 135 140
 35 Ile Met Thr Asp Gln Asp Gln Asp Gly Ser His Ile Lys Gly Leu Leu
 145 150 155 160
 Ile Asn Phe Ile His His Asn Trp Pro Ser Leu Leu Lys His Gly Phe
 165 170 175
 Leu Glu Glu Phe Ile Thr Pro Ile Xaa Lys Ala Ser Lys Asn Lys Gln
 180 185 190
 40 Glu Leu Ser Phe Tyr Ser Ile Pro Glu Phe Ala Asn Gly Lys Asn Ile
 195 200 205
 Xaa Lys Thr Arg Lys Pro Gly Lys
 210 215

45 <210> 1179
 <211> 110
 <212> PRT
 <213> Homo sapiens

50 <400> 1179
 Lys Pro Phe Ser Xaa Pro Val Leu Lys Pro Xaa Xaa Thr Xaa Lys Thr
 1 5 10 15
 Lys Xaa Arg Xaa Lys Gly Cys Xaa Leu Xaa Leu Gly Ile Gln Asn Leu
 20 25 30
 55 Ala Phe Gln Xaa Lys Pro Xaa Pro Pro Lys Gly Lys Gly Xaa Gly Ala
 35 40 45
 Xaa Lys Arg Lys Ala Xaa Gly Phe Glu Asn Glu Gly Asp Tyr Asn Pro
 50 55 60
 60 Gly Arg Xaa Xaa Ser Lys Xaa Xaa Ser Lys Lys Pro Lys Lys Thr Xaa
 65 70 75 80
 Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Xaa Phe Pro Asn
 85 90 95
 Glu Xaa Pro Phe Leu Pro Arg Thr Gly Xaa Val Xaa Xaa Lys

100 105 110

<210> 1180
 <211> 176
 5 <212> PRT
 <213> Homo sapiens

<400> 1180
 Val Gly Arg Tyr Leu Thr Leu Ala Ile Arg Met Pro Glu Asp Leu Ala
 1 5 10 15
 10 Met Ser Tyr Glu Glu Ser Gln Asp Leu Gln Leu Cys Val Asn Gly Cys
 20 25 30
 Pro Leu Ser Glu Arg Ile Asp Asp Gly Gln Gly Gln Val Ser Ala Ile
 35 40 45
 15 Leu Gly His Ser Leu Pro Arg Thr Ser Leu Val Gln Ala Trp Pro Gly
 50 55 60
 Tyr Thr Leu Glu Thr Ala Asn Thr Gln Cys His Glu Lys Met Pro Val
 65 70 75 80
 Lys Asp Ile Tyr Phe Gln Ser Cys Val Phe Asp Leu Leu Thr Thr Gly
 85 90 95
 20 Asp Ala Asn Phe Thr Ala Ala Ala His Ser Ala Leu Glu Asp Val Glu
 100 105 110
 Ala Leu His Pro Arg Lys Glu Arg Trp His Ile Phe Pro Ser Ser Gly
 115 120 125
 25 Asn Gly Thr Pro Arg Gly Gly Ser Asp Leu Ser Val Lys Ser Arg Thr
 130 135 140
 His Leu Leu Asp Pro Tyr Arg Val Phe Val Gly Val Xaa Phe Xaa Phe
 145 150 155 160
 Gly Phe Leu Phe Phe Xaa Tyr Asn Lys Ile Leu Lys Tyr Ile Leu Xaa
 165 170 175
 30

<210> 1181
 <211> 87
 35 <212> PRT
 <213> Homo sapiens

<400> 1181
 Lys Lys Cys Cys Leu His Met Leu Val Xaa Glu Thr Leu Ala Arg Arg
 1 5 10 15
 40 Ile Ser Gly His Thr Asn Met Trp Ile Gly Tyr Ser Cys Ser Glu Xaa
 20 25 30
 Ser Trp Gly Ser Leu Lys Arg Gly Lys His Trp Phe Ser Gln Met Leu
 35 40 45
 His Met Ala Xaa Phe Lys Arg Leu Lys Thr Phe Phe Cys Pro Leu Cys
 50 55 60
 45 Xaa Ala Trp Lys Leu Pro Pro Pro His Ser Val Ser Ser Leu Cys Lys
 65 70 75 80
 Glu Thr Phe Arg Cys Gly Ser
 85

50

<210> 1182
 <211> 85
 <212> PRT
 <213> Homo sapiens

55

<400> 1182
 Phe Arg Ser Xaa Val Lys Ile Cys Phe Xaa Ile Trp Xaa Ala Gln Xaa
 1 5 10 15
 Arg Lys Lys Ser Gly Xaa Tyr Pro Pro Phe Phe Val Gln Lys Tyr Glu
 20 25 30
 Ser Glu Val Lys Xaa Ile Glu Glu Phe Xaa Lys Asp Leu Gly Xaa Glu
 35 40 45
 60 Cys Val Ser Leu Ile Xaa Asn Leu Cys Ser Phe Gln Xaa Lys Tyr His

50 55 60
 Xaa, Xaa Leu Leu Asp Ser Gly Lys Arg Arg Leu Gly Tyr Phe Ala Ile
 65 70 75 80
 Ser Phe Ser Trp Lys
 85
 5
 <210> 1183
 <211> 83
 <212> PRT
 10 <213> Homo sapiens
 <400> 1183
 Asn Gly Gly Asn Thr Gly Phe His Arg Cys Ser Thr Trp Leu Xaa Leu
 1 5 10 15
 15 Lys Asp Ser Lys Leu Phe Phe Val Leu Phe Val Xaa Leu Gly Ser Ser
 20 25 30
 Pro Pro Pro Thr Val Cys Arg Val Phe Ala Lys Lys Pro Leu Asp Val
 35 40 45
 Val His Arg Tyr Met Asn Thr Tyr Leu Cys Lys Thr Val Ser Val Gln
 20 50 55 60
 Cys Val Asn Thr Leu Asn Tyr Tyr Ala Arg Lys Ile Lys Leu His Thr
 65 70 75 80
 Leu Leu Trp
 25
 <210> 1184
 <211> 229
 <212> PRT
 30 <213> Homo sapiens
 <400> 1184
 Glu Ile Thr Glu Leu Lys Val Lys Glu Phe Glu Asn Ile Lys Leu Gln
 1 5 10 15
 35 Leu Gln Glu Asn His Glu Asp Glu Val Lys Lys Val Lys Ala Glu Val
 20 25 30
 Glu Asp Leu Lys Tyr Xaa Leu Asp Gln Ser Gln Lys Glu Ser Gln Cys
 35 40 45
 Leu Lys Ser Glu Leu Gln Ala Gln Lys Glu Ala Asn Ser Arg Ala Pro
 50 55 60
 40 Thr Thr Thr Met Arg Asn Leu Val Glu Arg Leu Lys Ser Gln Leu Ala
 65 70 75 80
 Leu Lys Glu Lys Gln Gln Lys Ala Leu Ser Arg Ala Leu Leu Glu Leu
 85 90 95
 Arg Ala Glu Met Thr Ala Ala Ala Glu Arg Ile Ile Ser Ala Thr
 45 100 105 110
 Ser Gln Lys Glu Ala His Leu Asn Val Gln Gln Ile Val Asp Arg His
 115 120 125
 Thr Arg Glu Leu Lys Thr Gln Val Glu Asp Leu Asn Glu Asn Leu Leu
 130 135 140
 50 Lys Leu Lys Glu Ala Leu Lys Thr Ser Lys Asn Arg Glu Asn Ser Leu
 145 150 155 160
 Thr Asp Asn Leu Asn Asp Leu Asn Asn Glu Leu Gln Lys Lys Gln Lys
 165 170 175
 Ala Tyr Asn Lys Ile Leu Arg Glu Lys Glu Glu Ile Asp Gln Glu Asn
 55 180 185 190
 Asp Glu Leu Lys Arg Gln Ile Lys Arg Leu Thr Xaa Gly Leu Gln Gly
 195 200 205
 Lys Pro Leu Thr Asp Asn Lys Pro Arg Ser Asn Trp Arg Asn Ser Xaa
 210 215 220
 60 Gly Arg Leu Lys Thr
 225
 <210> 1185

<211> 182
 <212> PRT
 <213> Homo sapiens

5 <400> 1185
 Cys Lys Xaa Gly Pro Gln Xaa Gly Xaa Gln Lys Gly Phe Pro Asn Pro
 1 5 10 15
 Met Lys Pro Leu Xaa Thr Arg Leu Arg Xaa Leu Asn His Val Xaa Xaa
 20 25 30
 10 Gly Val Glu Thr Glu Gln Ala Phe Lys Gly Ser Phe Gln Val Phe Arg
 35 40 45
 Xaa Ala Asn His Pro Ala Asp Lys Glu Lys Ala Glu Leu Ile His Gln
 50 55 60
 Ile Glu Ala Thr Lys Asp Gln Ser Gly Ala Glu Ser Xaa Ile Pro Asp
 15 65 70 75 80
 Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu Glu Xaa Gln Leu Lys
 85 90 95
 Met Ser Asp Xaa Glu Lys Gln His Leu Lys Glu Glu Ile Lys Lys Leu
 100 105 110
 20 Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe Phe Glu Glu Ile Glu
 115 120 125
 Asp Xaa Lys Tyr Asn Tyr Lys Glu Glu Val Lys Lys Asn Ile Xaa Leu
 130 135 140
 Glu Glu Lys Val Lys Lys Leu Ser Glu Gln Leu Gly Val Glu Leu Thr
 25 145 150 155 160
 Ser Pro Val Ala Ala Xaa Glu Glu Phe Glu Asp Glu Glu Glu Ser Pro
 165 170 175
 Val Asn Phe Pro Ile Tyr
 180

30 <210> 1186
 <211> 118
 <212> PRT
 <213> Homo sapiens

35 <400> 1186
 Arg Glu Leu Glu Pro Ala Glu Phe Glu Thr Met Leu Leu Phe Cys Pro
 1 5 10 15
 Gly Cys Gly Asn Gly Leu Ile Val Glu Glu Gly Gln Arg Cys His Arg
 40 20 25 30
 Phe Ala Cys Asn Thr Cys Pro Tyr Val His Asn Ile Thr Arg Lys Val
 35 40 45
 Thr Asn Arg Lys Tyr Pro Lys Leu Lys Glu Val Asp Asp Val Leu Gly
 50 55 60
 45 Gly Ala Ala Ala Trp Glu Asn Val Asp Ser Thr Ala Glu Ser Cys Pro
 65 70 75 80
 Lys Cys Glu His Pro Arg Ala Tyr Phe Met Gln Leu Gln Thr Arg Ser
 85 90 95
 Ala Asp Glu Pro Met Thr Thr Phe Tyr Lys Cys Cys Asn Ala Gln Cys
 50 100 105 110
 Gly His Arg Trp Arg Asp
 115

55 <210> 1187
 <211> 84
 <212> PRT
 <213> Homo sapiens

60 <400> 1187
 Cys Asn Thr Cys Pro Leu Arg Ala Gln His His Xaa Gln Gly Asn Lys
 1 5 10 15
 Ser Xaa Asp Pro Lys Leu Lys Glu Val Asp Xaa Val Leu Gly Gly Ala
 20 25 30

Ala Ala Trp Glu Asn Val Asp Ser Thr Ala Glu Ser Cys Pro Lys Cys
 35 40 45
 Glu His Pro Arg Ala Tyr Phe Met Gln Leu Gln Thr Arg Ser Ala Asp
 50 55 60
 5 Glu Pro Met Thr Xaa Phe Tyr Lys Cys Cys Asn Ala Gln Cys Gly His
 65 70 75 80
 Arg Trp Arg Asp

10 <210> 1188
 <211> 190
 <212> PRT
 <213> Homo sapiens

15 <400> 1188
 Leu Gln Asp Ile Lys Glu Lys Ile Ser Lys Gly Glu Tyr Gly Asn Ala
 1 5 10 15
 Gly Ile Met Ala Glu Val Glu Glu Leu Arg Lys Arg Val Leu Asp Met
 20 25 30
 20 Glu Gly Lys Asp Glu Glu Leu Ile Lys Met Glu Glu Gln Cys Arg Asp
 35 40 45
 Leu Asn Lys Arg Leu Glu Arg Glu Thr Leu Gln Ser Lys Asp Phe Lys
 50 55 60
 Leu Glu Val Glu Lys Leu Ser Lys Arg Ile Met Ala Leu Glu Lys Leu
 25 65 70 75 80
 Glu Asp Ala Phe Asn Lys Ser Lys Gln Glu Cys Tyr Ser Leu Lys Cys
 85 90 95
 Asn Leu Glu Lys Glu Arg Met Thr Thr Lys Gln Leu Ser Gln Glu Leu
 100 105 110
 30 Glu Ser Leu Lys Val Arg Ile Lys Glu Leu Glu Ala Ile Glu Ser Arg
 115 120 125
 Leu Glu Lys Thr Glu Phe Thr Leu Lys Glu Asp Leu Thr Lys Leu Lys
 130 135 140
 Thr Leu Thr Val Met Phe Val Asp Glu Arg Lys Thr Met Ser Glu Lys
 35 145 150 155 160
 Leu Lys Lys Thr Glu Asp Lys Leu Gln Ala Ala Ser Ser Gln Leu Gln
 165 170 175
 Val Glu Gln Asn Lys Val Thr Thr Val Thr Glu Lys Val Asn
 180 185 190

40 <210> 1189
 <211> 214
 <212> PRT
 <213> Homo sapiens

45 <400> 1189
 Val Arg Val Asp Ser Thr Ala Lys Val Ala Glu Ile Glu His Ala Glu
 1 5 10 15
 Lys Glu Lys Met Lys Glu Lys Val Glu Arg Ile Leu Lys His Gly Ile
 50 20 25 30
 Asn Cys Phe Ile Asn Arg Gln Leu Ile Tyr Asn Tyr Pro Glu Gln Leu
 35 40 45
 Phe Gly Ala Ala Gly Val Met Ala Ile Glu His Ala Asp Phe Ala Gly
 50 55 60
 55 Val Glu Arg Leu Ala Leu Val Thr Gly Gly Glu Ile Ala Ser Thr Phe
 65 70 75 80
 Asp His Pro Glu Leu Val Lys Leu Gly Ser Cys Lys Leu Ile Glu Glu
 85 90 95
 Val Met Ile Gly Glu Asp Lys Leu Ile His Phe Ser Gly Val Ala Leu
 60 100 105 110
 Gly Glu Ala Cys Thr Ile Val Leu Arg Gly Ala Thr Gln Gln Ile Leu
 115 120 125
 Asp Glu Ala Glu Arg Ser Leu His Asp Ala Leu Cys Val Leu Ala Gln

130 135 140
 Thr Val Lys Asp Ser Arg Thr Val Tyr Gly Gly Cys Ser Glu Met
 145 150 155 160
 Leu Met Ala His Ala Val Thr Gln Leu Ala Asn Arg Thr Pro Gly Lys
 5 165 170 175
 Glu Ala Val Ala Met Glu Ser Tyr Ala Lys Ala Leu Arg Met Leu Pro
 180 185 190
 Thr Ile Ile Ala Asp Asn Ala Ala Met Thr Val Gln Thr Trp Trp His
 195 200 205
 10 Ser Ser Arg Leu Leu Gln
 210

<210> 1190
 <211> 245
 15 <212> PRT
 <213> Homo sapiens

<400> 1190
 Ser Arg Thr Arg Thr Ser Asp Arg Leu Asn Arg Ile Ala Asn Gln Val
 20 1 5 10 15
 Ala Ile Gln Arg Lys Lys Gln Phe Val Glu Arg Ala His Ser Tyr Trp
 20 25 30
 Leu Leu Lys Arg Leu Ser Arg Asn Gly Ala Pro Leu Leu Arg Arg Leu
 35 40 45
 25 Gln Ser Ser Leu Gln Ser Gln Arg Ser Ser Gln Gln Arg Glu Asn Asp
 50 55 60
 Glu Glu Met Lys Ala Ala Lys Glu Lys Leu Lys Tyr Trp Gln Arg Leu
 65 70 75 80
 Arg His Asp Leu Glu Arg Ala Arg Leu Leu Ile Glu Leu Leu Arg Lys
 30 85 90 95
 Arg Glu Lys Leu Lys Arg Glu Gln Val Lys Val Glu Gln Val Ala Met
 100 105 110
 Glu Leu Arg Leu Thr Pro Leu Thr Val Leu Leu Arg Ser Val Leu Asp
 115 120 125
 35 Gln Leu Gln Asp Lys Asp Pro Ala Arg Ile Phe Ala Gln Pro Val Ser
 130 135 140
 Leu Lys Glu Val Pro Asp Tyr Leu Asp His Ile Lys His Pro Met Asp
 145 150 155 160
 Phe Ala Thr Met Arg Lys Arg Leu Glu Ala Gln Gly Tyr Lys Asn Leu
 40 165 170 175
 His Glu Phe Glu Glu Asp Phe Asp Leu Ile Ile Asp Asn Cys Met Lys
 180 185 190
 Tyr Asn Ala Arg Asp Thr Val Phe Tyr Lys Xaa Arg Gly Glu Ala Cys
 195 200 205
 45 Ala Ile Lys Glu Val Leu Phe Leu Xaa Gln Ala Pro Xaa Arg Xaa Gly
 210 215 220
 Thr Ser Ile Arg Leu Gly Lys Arg Xaa Ser Gly Ile Ala Pro Cys Leu
 225 230 235 240
 Lys Pro Gly Leu Leu
 50 245

<210> 1191
 <211> 190
 <212> PRT
 55 <213> Homo sapiens

<400> 1191
 Pro Glu Ala Glu Thr Thr Gly Cys Gly Ala Ala Gly Arg Asp Thr Cys
 1 5 10 15
 60 Ser Pro Phe Asp Pro Ile Met Ser Arg Gly Ser Ile Glu Ile Pro Leu
 20 25 30
 Arg Asp Thr Asp Glu Val Ile Glu Leu Asp Phe Asp Gln Leu Pro Glu
 35 40 45

Gly Asp Glu Val Ile Ser Ile Leu Lys Gln Glu His Thr Gln Leu His
 50 55 60
 Ile Trp Ile Ala Leu Ala Leu Glu Tyr Tyr Lys Gln Gly Lys Thr Glu
 65 70 75 80
 5 Glu Phe Val Lys Leu Leu Glu Ala Ala Arg Ile Asp Gly Asn Leu Asp
 85 90 95
 Tyr Arg Asp His Glu Lys Asp Gln Met Thr Cys Leu Asp Thr Leu Ala
 100 105 110
 Ala Tyr Tyr Val Gln Gln Ala Arg Lys Glu Lys Asn Lys Asp Asn Lys
 115 120 125
 10 Lys Asp Leu Ile Thr Gln Ala Thr Leu Leu Tyr Thr Met Ala Asp Lys
 130 135 140
 Ile Ile Met Tyr Asp Gln Asn His Leu Leu Gly Arg Ala Cys Phe Cys
 145 150 155 160
 15 Leu Leu Glu Gly Asp Lys Met Asp Gln Ala Asp Ala Gln Phe His Phe
 165 170 175
 Val Leu Asn Gln Ser Xaa Asn Asn Ile Xaa Ser Pro Ser Trp
 180 185 190
 20 <210> 1192
 <211> 114
 <212> PRT
 <213> Homo sapiens
 25 <400> 1192
 Ala Glu Ala Gly Ser Ser Gln Gln Met Val Leu Ile Ile His Asn Asn
 1 5 10 15
 Phe Ile Gly His Cys Ile Gln Gln Gly Gly Leu Cys Asn Lys Ile Leu
 20 25 30
 30 Phe Ile Val Leu Ile Leu Phe Phe Pro Ser Leu Leu Tyr Ile Ile Arg
 35 40 45
 Cys Gln Cys Ile Gln Ala Ser His Leu Val Phe Phe Met Val Ser Ile
 50 55 60
 Val Gln Ile Ala Ile Tyr Thr Cys Cys Phe Gln Gln Phe Tyr Lys Leu
 65 70 75 80
 35 Phe Cys Phe Ser Leu Leu Val Val Phe Gln Arg Gln Ser Asn Pro Tyr
 85 90 95
 Val Gln Leu Cys Val Phe Leu Phe Gln Asn Thr Asp Asn Phe Ile Ser
 100 105 110
 40 Leu Arg
 <210> 1193
 <211> 40
 45 <212> PRT
 <213> Homo sapiens
 <400> 1193
 Lys Arg Phe Leu Thr Asn Glu Gly Ser Gly Xaa Lys Xaa Leu Glu Met
 1 5 10 15
 Asn Xaa Asn Gln Arg Asp Pro Pro Pro Lys Xaa Ser Asp Lys Gly Ser
 20 25 30
 Glu His Gly Ser Asp Asp Ser Asp
 35 40
 55 <210> 1194
 <211> 196
 <212> PRT
 <213> Homo sapiens
 60 <400> 1194
 Glu Arg Xaa Leu Glu Arg Ala Arg Glu Arg Asp Lys Glu Arg Glu Arg
 1 5 10 15

Gln Arg Asp Trp Glu Asp Lys Asp Lys Gly Arg Asp Asp Arg Arg Glu
 20 25 30
 Lys Arg Glu Glu Ile Arg Glu Asp Arg Asn Pro Arg Asp Gly His Asp
 35 40 45
 5 Glu Arg Lys Ser Lys Lys Arg Tyr Arg Asn Glu Gly Ser Pro Ser Pro
 50 55 60
 Arg Gln Ser Pro Lys Arg Arg Arg Glu His Ser Pro Asp Ser Asp Ala
 65 70 75 80
 10 Tyr Asn Ser Gly Asp Asp Lys Asn Glu Lys His Arg Leu Leu Ser Gln
 85 90 95
 Val Val Arg Pro Gln Glu Ser Arg Ser Leu Ser Pro Ser His Leu Thr
 100 105 110
 Glu Asp Arg Gln Gly Arg Trp Lys Glu Glu Asp Arg Lys Pro Glu Arg
 115 120 125
 15 Lys Glu Ser Ser Arg Arg Tyr Glu Glu Gln Glu Leu Lys Glu Lys Val
 130 135 140
 Ser Ser Val Asp Lys Gln Arg Glu Gln Thr Glu Ile Leu Glu Ser Ser
 145 150 155 160
 20 Arg Met Arg Ala Gln Asp Ile Ile Gly His His Gln Ser Glu Asp Arg
 165 170 175
 Glu Thr Ser Asp Arg Ala Leu Met Lys Thr Arg Arg Lys Pro Lys Phe
 180 185 190
 Lys Glu Xaa Ile
 195
 25
 <210> 1195
 <211> 194
 <212> PRT
 <213> Homo sapiens
 30
 <400> 1195
 Glu Lys Ser Glu Lys Lys Xaa Ile Lys Xaa Glu Xaa Pro Lys Gly Leu
 1 5 10 15
 Gly Xaa Xaa Xaa Xaa Lys Ala Glu Met Xaa Xaa Xaa Lys Ser Xaa Lys
 20 25 30
 35 Arg Ser Glu Lys Ile Gly Ile Gln Glu Met Xaa Met Met Lys Glu Asn
 35 40 45
 Gln Arg Ser Gly Tyr Arg Asn Glu Gly Xaa Pro Ser Pro Arg Gln Ser
 50 55 60
 40 Pro Lys Arg Arg Gly Glu His Xaa Pro Asp Ser Asp Ala Xaa Xaa Xaa
 65 70 75 80
 Gly Asp Asp Lys Asn Glu Lys Pro Arg Xaa Leu Ser Gln Val Val Xaa
 85 90 95
 Xaa Gln Xaa Phe Xaa Phe Phe Ser Pro Ser Pro Leu Xaa Xaa Asp Arg
 100 105 110
 45 Gln Gly Arg Trp Lys Xaa Glu Xaa Cys Xaa Pro Glu Arg Lys Xaa Ser
 115 120 125
 Ser Arg Xaa Tyr Glu Glu Gln Glu Leu Lys Xaa Lys Val Phe Phe Val
 130 135 140
 50 Asp Lys Gln Arg Glu Gln Thr Glu Ile Leu Glu Ser Ser Arg Met Xaa
 145 150 155 160
 Xaa Gln Xaa Ile Ile Xaa Pro Pro Gln Phe Glu Asp Arg Xaa Thr Xaa
 165 170 175
 Asp Xaa Ala His Asp Glu Asn Lys Lys Lys Ala Lys Ile Gln Lys Xaa
 180 185 190
 55 Xaa Xaa

60 <210> 1196
 <211> 232
 <212> PRT
 <213> Homo sapiens

<400> 1196
 Gln Asp Leu Tyr Ser Ala Arg Asp Leu Gln Gly Leu Thr Val Glu His
 1 5 10 15
 5 Ala Ile Asp Ser Phe Arg Glu Gly Glu Thr Met Ile Leu Thr Leu Lys
 20 25 30
 Asp Lys Gly Val Leu Gln Glu Glu Asp Val Leu Val Asn Val Asn
 35 40 45
 Leu Val Asp Lys Glu Arg Ala Glu Lys Asn Val Glu Leu Arg Lys Lys
 50 55 60
 10 Lys Pro Asp Tyr Leu Pro Tyr Ala Glu Asp Glu Ser Val Asp Asp Leu
 65 70 75 80
 Ala Gln Gln Lys Pro Arg Ser Ile Leu Ser Lys Tyr Asp Glu Glu Leu
 85 90 95
 15 Glu Gly Glu Arg Pro His Ser Phe Arg Leu Glu Gln Gly Gly Thr Ala
 100 105 110
 Asp Gly Leu Arg Glu Arg Glu Leu Glu Glu Ile Arg Ala Lys Leu Arg
 115 120 125
 Leu Gln Ala Gln Ser Leu Ser Thr Val Gly Pro Arg Leu Ala Ser Glu
 130 135 140
 20 Tyr Leu Thr Pro Glu Glu Met Val Thr Phe Lys Lys Thr Lys Arg Arg
 145 150 155 160
 Val Lys Lys Ile Arg Lys Lys Glu Lys Glu Val Val Val Arg Ala Asp
 165 170 175
 25 Asp Leu Leu Pro Leu Gly Asp Gln Thr Gln Asp Gly Asp Phe Gly Ser
 180 185 190
 Xaa Thr Ala Gly Asp Xaa Val Pro Pro Gln Cys Xaa Glu Trp Arg Lys
 195 200 205
 Lys Xaa Glu Pro Cys Ala Leu Thr Pro Gly Val Gly Arg His Pro Asn
 210 215 220
 30 Xaa Arg Thr Leu Asp Ile Ile Asp
 225 230

<210> 1197
 <211> 165
 35 <212> PRT
 <213> Homo sapiens

<400> 1197
 Ile Gly Gly Trp Gln Leu Pro Cys Ser Cys Val Arg Thr Lys Gly Cys
 1 5 10 15
 40 Trp Arg Pro Gln Ser Glu Gly Gly Pro Gly Lys Ala Pro Asn Lys Ser
 20 25 30
 Leu Pro Ser Ala Val Xaa Cys Ile Glu Asp Lys Met Ala Ile Asp Asp
 35 40 45
 45 Lys Tyr Ser Arg Arg Glu Glu Tyr Arg Gly Phe Thr Gln Asp Phe Lys
 50 55 60
 Glu Lys Asp Gly Tyr Lys Pro Asp Val Lys Ile Glu Tyr Val Asp Glu
 65 70 75 80
 Thr Gly Arg Lys Leu Thr Pro Lys Glu Ala Phe Arg Gln Leu Ser His
 85 90 95
 50 Arg Phe His Gly Lys Gly Ser Gly Lys Met Lys Thr Glu Arg Arg Met
 100 105 110
 Lys Lys Leu Asp Glu Glu Ala Leu Leu Lys Lys Met Ser Ser Ser Asp
 115 120 125
 55 Thr Pro Leu Gly Thr Val Ala Leu Leu Gln Glu Lys Gln Lys Ala Gln
 130 135 140
 Lys Thr Pro Tyr Ile Val Leu Ser Gly Ser Gly Lys Ser Met Asn Ala
 145 150 155 160
 60 Asn Thr Ile Thr Lys
 165

<210> 1198
 <211> 206

<212> PRT

<213> Homo sapiens

<400> 1198

5 Lys Met Ala Lys Val Ser Glu Leu Tyr Asp Val Thr Trp Glu Glu Met
 1 5 10 15
 Arg Asp Lys Met Arg Lys Trp Arg Glu Glu Asn Ser Arg Asn Ser Glu
 20 25 30
 10 Gln Ile Val Glu Val Gly Glu Glu Leu Ile Asn Glu Tyr Ala Ser Lys
 35 40 45
 Leu Gly Asp Asp Ile Trp Ile Ile Tyr Glu Gln Val Met Ile Ala Ala
 50 55 60
 Leu Asp Tyr Gly Arg Asp Asp Leu Ala Leu Phe Cys Leu Gln Glu Leu
 65 70 75 80
 15 Arg Arg Gln Phe Pro Gly Ser His Arg Val Lys Arg Leu Thr Gly Met
 85 90 95
 Arg Phe Glu Ala Met Glu Arg Tyr Asp Asp Ala Ile Gln Leu Tyr Asp
 100 105 110
 Arg Ile Leu Gln Glu Asp Pro Thr Asn Thr Ala Ala Arg Lys Arg Lys
 115 120 125
 20 Ile Ala Ile Arg Lys Ala Gln Gly Lys Asn Val Glu Ala Ile Arg Glu
 130 135 140
 Leu Asn Glu Tyr Leu Glu Gln Phe Val Gly Asp Gln Glu Ala Trp His
 145 150 155 160
 25 Glu Leu Ala Glu Leu Tyr Ile Asn Glu His Asp Tyr Ala Lys Ala Ala
 165 170 175
 Phe Cys Leu Glu Glu Leu Met Met Thr Asn Pro His Asn His Leu Tyr
 180 185 190
 Cys Gln Gln Tyr Ala Glu Val Lys Tyr Thr Gln Xaa Trp Thr
 195 200 205

<210> 1199

<211> 62

<212> PRT

35 <213> Homo sapiens

<400> 1199

Cys Gln Gln Tyr Ala Glu Val Lys Tyr Thr Gln Gly Xaa Leu Glu Thr
 1 5 10 15
 40 Leu Glu Leu Ser Arg Lys Tyr Phe Ala Gln Ala Leu Lys Leu Asn Asn
 20 25 30
 Arg Asn Met Arg Ala Leu Phe Gly Leu Tyr Met Ser Ala Ser His Ile
 35 40 45
 45 Ala Xaa Asn Pro Lys Ala Ser Ala Lys Thr Lys Lys Ala Thr
 50 55 60

<210> 1200

<211> 147

<212> PRT

50 <213> Homo sapiens

<400> 1200

Ser Pro Cys Arg Ser Pro His Arg Trp Val Asn Ser Thr Cys Arg Ser
 1 5 10 15
 55 Thr Leu Lys Thr Arg Arg Leu Trp Tyr Asn Thr Pro His Thr His Ser
 20 25 30
 Gln Pro Pro Asp Lys Thr His Ser Leu Pro Leu Pro Cys Thr Ile Pro
 35 40 45
 Met Arg His Asn Tyr Asn Lys Leu His Leu Pro Thr Thr Asn Arg Pro
 50 55 60
 60 Lys Ile Ala His Cys Ile Leu Phe Asn Gln Pro His Ser Pro Arg Ser
 65 70 75 80
 Asn Ser His Ser His Pro Asn Pro Leu Lys Leu His Arg Arg Ser His

85 90 95
 Ser His Asn Arg Pro Arg Thr Tyr Ile Leu Ile Thr Ile Leu Pro Ser
 100 105 110
 5 Lys Leu Lys Leu Arg Thr His Ser Gln Ser His His Asn Pro Leu Ser
 115 120 125
 Arg Thr Ser Asn Ser Thr Pro Thr Asn Ser Phe Leu Met Thr Ser Ser
 130 135 140
 Lys Pro Arg
 145
 10
 <210> 1201
 <211> 71
 <212> PRT
 <213> Homo sapiens
 15
 <400> 1201
 Ser Asn Ile Thr Leu Leu Leu Thr Gly Leu Asn Ile Leu Val Thr Ala
 1 5 10 15
 20 Leu Tyr Ser Leu Tyr Ile Phe Thr Thr Gln Trp Gly Ser Leu Thr
 20 25 30
 His His Ile Asn Asn Ile Lys Pro Ser Phe Thr Arg Glu Asn Thr Leu
 35 40 45
 Met Phe Ile His Leu Ser Pro Ile Leu Leu Leu Ser Leu Asn Pro Asp
 50 55 60
 25 Ile Ile Thr Gly Phe Ser Ser
 65 70
 <210> 1202
 <211> 93
 30 <212> PRT
 <213> Homo sapiens
 <400> 1202
 Ala His His Ser Leu Ile Glu Asn Asn Arg Asn Gln Ile Ile Gln Ala
 1 5 10 15
 35 Leu Leu Ile Thr Ile Leu Leu Gly Leu Tyr Phe Thr Leu Leu Gln Ala
 20 25 30
 Ser Glu Tyr Phe Glu Ser Pro Phe Thr Ile Ser Asp Gly Ile Tyr Gly
 35 40 45
 40 Ser Thr Phe Phe Val Ala Thr Gly Phe His Gly Leu His Val Ile Ile
 50 55 60
 Gly Ser Thr Phe Leu Thr Ile Cys Phe Ile Arg Gln Leu Ile Phe His
 65 70 75 80
 Phe Thr Ser Lys His His Phe Gly Phe Glu Ala Ala Ala
 45 85 90
 <210> 1203
 <211> 159
 <212> PRT
 50 <213> Homo sapiens
 <400> 1203
 Val Ser Ser Arg Tyr Xaa Pro Asn Glu Gly Ser His His Xaa Phe Leu
 1 5 10 15
 55 Lys Xaa Gln Arg Lys Ser Lys Ser Xaa Lys Ile Ile Phe Asn Tyr Xaa
 20 25 30
 Xaa Asp Ala Xaa Arg Glu Xaa Thr Leu Val Ser Glu Xaa Ala Gln Arg
 35 40 45
 60 Ala Gln Arg Glu Xaa Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr
 50 55 60
 Gln Asn Glu Gln Asp Asn Val Asn Lys Xaa Xaa Xaa Gln Xaa Xaa Ser
 65 70 75 80
 Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Xaa

85 90 95
 Gln Gln Leu Val Xaa Xaa His Lys Lys Xaa Ala Xaa Lys Ser Lys Ile
 100 105 110
 Xaa Ile Asp Ile His Phe Leu Glu Arg Lys Xaa Xaa His His Xaa Leu
 115 120 125
 Lys Glu Lys Asn Glu Glu Ile Phe Asn Ser Asn Xaa His Leu Lys Xaa
 130 135 140
 Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Xaa Glu Asn Ser
 145 150 155
 <210> 1204
 <211> 53
 <212> PRT
 <213> Homo sapiens
 <400> 1204
 Ser Gln Pro Tyr Thr Pro Ser Thr Tyr Leu Pro Gln His Asn Gly Ala
 1 5 10 15
 His Ser Pro His Ile Asn Asn Ile Lys Pro Ser Phe Thr Arg Glu Asn
 20 20 25 30
 Thr Leu Met Ser Tyr Thr Tyr Pro His Ser Leu Tyr Ser Ser Thr Arg
 35 40 45
 Ile Leu Pro Gly Phe
 50
 <210> 1205
 <211> 71
 <212> PRT
 <213> Homo sapiens
 <400> 1205
 Ser Asn Ile Thr Leu Leu Leu Thr Gly Leu Asn Ile Leu Val Thr Ala
 1 5 10 15
 Leu Tyr Ser Leu Tyr Ile Phe Thr Thr Thr Gln Trp Gly Ser Leu Thr
 20 25 30
 His His Ile Asn Asn Ile Lys Pro Ser Phe Thr Arg Glu Asn Thr Leu
 35 40 45
 Met Phe Ile His Leu Ser Pro Ile Leu Leu Leu Ser Leu Asn Pro Asp
 50 55 60
 Ile Ile Thr Gly Phe Ser Ser
 65 70
 <210> 1206
 <211> 279
 <212> PRT
 <213> Homo sapiens
 <400> 1206
 Glu Ile His Arg Lys Leu Ser Glu Ala Thr Arg Glu Leu Gln Asn Ala
 1 5 10 15
 Pro Asp Ala Ile Pro Glu Ser Gly Val Glu Pro Pro Ala Leu Asp Thr
 20 25 30
 Ala Trp Val Glu Ala Thr Arg Lys Lys Ala Leu Leu Lys Leu Glu Lys
 35 40 45
 Leu Asp Thr Asp Leu Lys Asn Tyr Lys Gly Asn Ser Ile Lys Glu Ser
 50 55 60
 Ile Arg Arg Gly His Asp Asp Leu Gly Asp His Tyr Leu Asp Cys Gly
 65 70 75 80
 Asp Leu Ser Asn Ala Leu Lys Cys Tyr Ser Arg Ala Arg Asp Tyr Cys
 85 90 95
 Thr Ser Ala Lys His Val Ile Asn Met Cys Leu Asn Val Ile Lys Val
 100 105 110
 Ser Val Tyr Leu Gln Asn Trp Ser His Val Leu Ser Tyr Val Ser Lys

115 120 125
 Ala Glu Ser Thr Pro Glu Ile Ala Glu Gln Arg Gly Glu Arg Asp Ser
 130 135 140
 5 Gln Thr Gln Ala Ile Leu Thr Lys Leu Lys Cys Ala Ala Gly Leu Ala
 145 150 155 160
 Glu Leu Ala Ala Arg Lys Tyr Lys Gln Ala Ala Lys Cys Leu Leu Leu
 165 170 175
 Ala Ser Phe Asp His Cys Asp Phe Pro Glu Leu Leu Ser Pro Ser Asn
 180 185 190
 10 Val Ala Ile Tyr Gly Gly Leu Cys Ala Leu Ala Thr Phe Asp Arg Gln
 195 200 205
 Glu Leu Gln Arg Asn Val Ile Phe Ser Ser Ser Phe Lys Leu Phe Leu
 210 215 220
 15 Glu Leu Glu Pro Xaa Val Arg Asp Ile Ile Phe Lys Phe Tyr Glu Xaa
 225 230 235 240
 Lys Tyr Ala Ser Cys Leu Lys Asn Ala Gly Pro Arg Met Lys Gly Gln
 245 250 255
 Pro Cys Ser Leu Asp Ile Val Xaa Trp Ala Pro Ile Val Lys Asp Pro
 260 265 270
 20 Cys Thr Pro Gln Ile Ser Lys
 275

 <210> 1207
 <211> 178
 25 <212> PRT
 <213> Homo sapiens

 <400> 1207
 30 Glu Ile His Arg Lys Leu Ser Glu Ala Thr Arg Glu Leu Gln Asn Ala
 1 5 10 15
 Pro Asp Ala Ile Pro Glu Ser Gly Val Glu Pro Pro Ala Leu Asp Thr
 20 25 30
 Ala Trp Val Glu Ala Thr Arg Lys Ala Leu Leu Lys Leu Glu Lys
 35 35 40 45
 35 Leu Asp Thr Asp Leu Lys Asn Tyr Lys Gly Asn Ser Ile Lys Glu Ser
 50 55 60
 Ile Arg Arg Gly His Asp Asp Leu Gly Asp His Tyr Leu Asp Cys Gly
 65 70 75 80
 Asp Leu Ser Asn Ala Leu Lys Cys Tyr Ser Arg Ala Arg Asp Tyr Cys
 40 85 90 95
 Thr Ser Ala Lys His Val Ile Asn Met Cys Leu Asn Val Ile Lys Val
 100 105 110
 Ser Val Tyr Leu Gln Asn Trp Ser His Val Leu Ser Tyr Val Ser Lys
 115 120 125
 45 Ala Glu Ser Thr Pro Glu Ile Ala Glu Gln Arg Gly Glu Arg Asp Ser
 130 135 140
 Gln Thr Gln Ala Ile Leu Thr Lys Leu Lys Cys Ala Ala Ser Leu Ala
 145 150 155 160
 Lys Leu Xaa Ala Arg Xaa Tyr Lys Gln Ala Cys Gln Val Leu Cys Trp
 50 165 170 175
 Leu Leu

 <210> 1208
 55 <211> 120
 <212> PRT
 <213> Homo sapiens

 <400> 1208
 60 Ser Phe Gln Tyr Phe Lys Pro Leu Arg Phe Lys Pro Thr Met His Xaa
 1 5 10 15
 Met Gly Gln Pro Phe Lys Tyr His Gly Ala Xaa Leu Xaa Gly Arg Val
 20 25 30

Asp Ala Val Asn Leu Glu Gly Val Asp Gln Cys Xaa Cys Gly Leu Thr
 35 40 45
 Gln Ala Arg Ser Tyr Thr Ala Xaa Xaa Val Asp Gln Arg Ser Thr Thr
 50 55 60
 5 Phe Glu Lys Xaa Leu Leu Met Gly Lys Glu Phe Gln Arg Arg Ala Lys
 65 70 75 80
 Ala Met Met Leu Arg Ala Ala Val Leu Arg Asn Gln Ile His Val Lys
 85 90 95
 10 Ser Pro Pro Arg Glu Gly Ser Gln Gly Glu Leu Thr Pro Ala Asn Ser
 100 105 110
 Gln Ser Arg Met Ser Thr Asn Met
 115 120

 <210> 1209
 15 <211> 182
 <212> PRT
 <213> Homo sapiens

 <400> 1209
 20 Gly Val Glu Pro Pro Ala Leu Asp Thr Ala Trp Val Glu Ala Thr Arg
 1 5 10 15
 Lys Lys Ala Leu Leu Lys Leu Glu Lys Leu Asp Thr Asp Leu Lys Asn
 20 25 30
 Tyr Lys Gly Asn Ser Ile Lys Glu Ser Ile Arg Arg Gly His Asp Asp
 25 35 40 45
 Leu Gly Asp His Tyr Leu Asp Cys Gly Asp Leu Ser Asn Ala Leu Lys
 50 55 60
 Cys Tyr Ser Arg Ala Arg Asp Tyr Cys Thr Ser Ala Lys His Val Ile
 65 70 75 80
 30 Asn Met Cys Leu Asn Val Ile Lys Val Ser Val Tyr Leu Gln Asn Trp
 85 90 95
 Ser His Val Leu Ser Tyr Val Ser Lys Ala Glu Ser Thr Pro Glu Ile
 100 105 110
 Ala Glu Gln Arg Gly Glu Arg Asp Ser Gln Thr Gln Ala Ile Leu Thr
 35 115 120 125
 Lys Leu Lys Cys Ala Ala Gly Leu Ala Glu Leu Ala Ala Arg Lys Tyr
 130 135 140
 Lys Gln Ala Ala Lys Cys Leu Leu Leu Ala Ser Phe Asp His Xaa Asp
 145 150 155 160
 40 Phe Pro Glu Leu Leu Ser Pro Asn Asn Val Ala Ile Tyr Gly Gly Leu
 165 170 175
 Cys Ala Leu Ala Thr Phe
 180

 45 <210> 1210
 <211> 239
 <212> PRT
 <213> Homo sapiens

 50 <400> 1210
 Lys Lys Ala Leu Leu Lys Leu Glu Lys Leu Asp Thr Asp Leu Lys Asn
 1 5 10 15
 Tyr Lys Gly Asn Ser Ile Lys Glu Ser Ile Arg Arg Gly His Asp Asp
 20 25 30
 55 Leu Gly Asp His Tyr Leu Asp Cys Gly Asp Leu Ser Asn Ala Leu Lys
 35 40 45
 Cys Tyr Ser Arg Ala Arg Asp Tyr Cys Thr Ser Ala Lys His Val Ile
 50 55 60
 Asn Met Cys Leu Asn Val Ile Lys Val Ser Val Tyr Leu Gln Asn Trp
 60 65 70 75 80
 Ser His Val Leu Ser Tyr Val Ser Lys Ala Glu Ser Thr Pro Glu Ile
 85 90 95
 Ala Glu Arg Gly Glu Arg Asp Ser Gln Thr Gln Ala Ile Leu Thr Lys

100 105 110
 Leu Lys Cys Ala Ala Gly Leu Ala Glu Leu Ala Ala Arg Lys Tyr Lys
 115 120 125
 5 Gln Ala Ala Lys Cys Leu Leu Ala Ser Phe Asp His Cys Asp Phe
 130 135 140
 Pro Glu Leu Leu Ser Pro Ser Asn Val Ala Ile Tyr Gly Gly Leu Cys
 145 150 155 160
 Ala Leu Ala Thr Phe Asp Arg Gln Glu Leu Gln Arg Asn Val Ile Phe
 165 170 175
 10 Ser Ser Ser Phe Lys Leu Phe Leu Glu Leu Glu Pro Xaa Val Arg Asp
 180 185 190
 Ile Ile Phe Lys Phe Tyr Glu Xaa Lys Tyr Ala Ser Cys Leu Lys Asn
 195 200 205
 Ala Gly Pro Arg Met Lys Gly Gln Pro Cys Ser Leu Asp Ile Val Xaa
 210 215 220
 15 Trp Ala Pro Ile Val Lys Asp Pro Cys Thr Pro Gln Ile Ser Lys
 225 230 235

 <210> 1211
 20 <211> 245
 <212> PRT
 <213> Homo sapiens

 <400> 1211
 25 Lys Lys Ala Leu Lys Leu Glu Lys Leu Asp Thr Asp Leu Lys Asn
 1 5 10 15
 Tyr Lys Gly Asn Ser Ile Lys Glu Ser Ile Arg Arg Gly His Asp Asp
 20 25 30
 30 Leu Gly Asp His Tyr Leu Asp Cys Gly Asp Leu Ser Asn Ala Leu Lys
 35 40 45
 Cys Tyr Ser Arg Ala Arg Asp Tyr Cys Thr Ser Ala Lys His Val Ile
 50 55 60
 Asn Met Cys Leu Asn Val Ile Lys Val Ser Val Tyr Leu Gln Asn Trp
 65 70 75 80
 35 Ser His Val Leu Ser Tyr Val Ser Lys Ala Glu Ser Thr Pro Glu Ile
 85 90 95
 Ala Glu Arg Gly Glu Arg Asp Ser Gln Thr Gln Ala Ile Leu Thr Lys
 100 105 110
 40 Leu Lys Cys Ala Ala Gly Leu Ala Glu Leu Ala Ala Arg Lys Tyr Lys
 115 120 125
 Gln Ala Ala Lys Cys Leu Leu Leu Ala Ser Phe Asp His Cys Asp Phe
 130 135 140
 Pro Glu Leu Leu Ser Pro Ser Asn Val Ala Ile Tyr Gly Gly Leu Cys
 145 150 155 160
 45 Ala Leu Ala Thr Phe Asp Arg Gln Glu Leu Gln Arg Asn Val Ile Phe
 165 170 175
 Ser Ser Phe Phe Lys Leu Phe Leu Glu Leu Glu Pro Gln Xaa Arg Asp
 180 185 190
 Ile Ile Phe Lys Phe Tyr Glu Xaa Gln Val Pro Leu Met Phe Xaa Arg
 195 200 205
 50 Cys Leu Asp Glu Asn Glu Arg Thr Thr Leu Xaa Leu Asp Asn Val Xaa
 210 215 220
 Trp Pro Pro Leu Leu Xaa Thr Leu Tyr Asn Pro Lys Phe Arg Asn Arg
 225 230 235 240
 55 Xaa Pro Ser Phe Ser
 245

 <210> 1212
 <211> 210
 60 <212> PRT
 <213> Homo sapiens

 <400> 1212

Ser Glu Met Ile Phe Ser Asp Met Asn Thr Val Ser Gly Ser Pro Lys
 1 5 10 15
 Val His Pro Pro Asn Gly Thr Arg Phe Tyr Thr Phe Gln Glu Phe Ala
 20 25 30
 5 Ala Leu Thr Lys Glu Leu Asn Ala Cys Arg Glu Gln Leu Leu Glu Lys
 35 40 45
 Glu Glu Glu Ile Ser Glu Leu Lys Ala Glu Arg Asn Asn Thr Arg Leu
 50 55 60
 Leu Leu Glu His Leu Glu Cys Leu Val Ser Arg His Glu Arg Ser Leu
 65 70 75 80
 10 Arg Met Thr Val Val Lys Arg Gln Ala Gln Ser Pro Ser Gly Val Ser
 85 90 95
 Ser Glu Val Glu Val Leu Lys Ala Leu Lys Ser Leu Phe Glu His His
 100 105 110
 15 Lys Ala Leu Asp Glu Lys Val Arg Glu Arg Leu Arg Val Ser Leu Glu
 115 120 125
 Arg Val Ser Ala Leu Glu Glu Leu Ala Ala Ala Asn Gln Glu Ile
 130 135 140
 Val Ala Leu Arg Glu Gln Asn Val His Ile Gln Arg Lys Met Ala Ser
 145 150 155 160
 20 Ser Glu Gly Ser Thr Glu Ser Glu His Leu Glu Gly Met Glu Pro Gly
 165 170 175
 Gln Lys Val His Glu Lys Arg Leu Ser Asn Gly Ser Ile Asp Ser Thr
 180 185 190
 25 Asp Glu Thr Ser Gln Ile Val Glu Leu Gln Glu Leu Leu Glu Lys Gln
 195 200 205
 Asn Gln
 210

30 <210> 1213
 <211> 97
 <212> PRT
 <213> Homo sapiens

35 <400> 1213
 Ser Glu Met Ile Phe Ser Asp Met Asn Thr Val Ser Gly Ser Pro Lys
 1 5 10 15
 Val His Pro Pro Asn Gly Thr Arg Phe Tyr Thr Phe Gln Glu Phe Ala
 20 25 30
 40 Ala Leu Thr Lys Glu Leu Asn Ala Cys Arg Glu Gln Leu Leu Glu Lys
 35 40 45
 Glu Glu Glu Ile Ser Glu Leu Lys Ala Glu Arg Asn Asn Thr Arg Leu
 50 55 60
 Leu Leu Glu His Leu Glu Cys Leu Val Ser Arg His Glu Arg Ser Leu
 65 70 75 80
 45 Arg Met Thr Val Val Lys Arg Gln Ala Gln Ser Pro Ser Gly Val Ser
 85 90 95
 Lys

50 <210> 1214
 <211> 209
 <212> PRT
 <213> Homo sapiens

55 <400> 1214
 Glu Met Ile Phe Ser Asp Met Asn Thr Val Ser Gly Ser Pro Lys Val
 1 5 10 15
 His Pro Pro Asn Gly Thr Arg Phe Tyr Thr Phe Gln Glu Phe Ala Ala
 20 25 30
 60 Leu Thr Lys Glu Leu Asn Ala Cys Arg Glu Gln Leu Leu Glu Lys Glu
 35 40 45
 Glu Glu Ile Ser Glu Leu Lys Ala Glu Arg Asn Asn Thr Arg Leu Leu

50 55 60
 Leu Glu His Leu Glu Cys Leu Val Ser Arg His Glu Arg Ser Leu Arg
 65 70 75 80
 Met Thr Val Val Lys Arg Gln Ala Gln Ser Pro Ser Gly Val Ser Ser
 5 85 90 95
 Glu Val Glu Val Leu Lys Ala Leu Lys Ser Leu Phe Glu His His Lys
 100 105 110
 Ala Leu Asp Glu Lys Val Arg Glu Arg Leu Arg Val Ser Leu Glu Arg
 115 120 125
 10 Val Ser Ala Leu Glu Glu Glu Leu Ala Ala Ala Asn Gln Glu Ile Val
 130 135 140
 Ala Leu Arg Glu Gln Asn Val His Ile Gln Arg Lys Met Ala Ser Ser
 145 150 155 160
 Glu Gly Ser Thr Glu Ser Glu His Leu Glu Gly Met Glu Pro Gly Gln
 15 165 170 175
 Lys Val His Glu Lys Arg Leu Ser Asn Gly Ser Ile Asp Ser Thr Asp
 180 185 190
 Glu Thr Ser Gln Ile Val Glu Leu Gln Glu Leu Leu Glu Lys Gln Asn
 195 200 205
 20 Gln

<210> 1215
 <211> 98
 25 <212> PRT
 <213> Homo sapiens

<400> 1215
 Gly Gly Met Asn Asp Leu Phe Phe Gln Glu Phe Ala Ala Leu Thr Lys
 30 1 5 10 15
 Glu Leu Asn Ala Cys Arg Glu Gln Leu Leu Glu Lys Glu Glu Glu Ile
 20 25 30
 Ser Glu Leu Lys Ala Glu Arg Asn Asn Thr Arg Leu Leu Glu His
 35 35 40 45
 Leu Glu Cys Leu Val Ser Arg His Glu Arg Ser Leu Arg Met Thr Val
 50 55 60
 Val Lys Arg Gln Ala Gln Ser Pro Ser Gly Val Ser Ser Glu Val Glu
 65 70 75 80
 Val Leu Lys Ala Leu Lys Ser Leu Phe Glu Pro Thr Arg Pro Trp Met
 40 85 90 95
 Lys Xaa

<210> 1216
 45 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 1216
 50 Xaa Gln Arg Thr Asn Phe Xaa Leu Lys Xaa Ile Phe Ser Leu Pro Ser
 1 5 10 15
 Gly His Ser Asp Ala Gln Thr Leu Ala Met Met Leu Gln Glu Gln Leu
 20 25 30
 Asp Ala Ile Asn Lys Glu Ile Arg Leu Ile Gln Glu Glu Lys Glu Ser
 55 35 40 45
 Thr Glu Leu Arg Ala Glu Glu Ile Glu Asn Arg Val Ala Ser Val Ser
 50 55 60
 Leu Glu Gly Leu Asn Leu Ala Arg Val His Pro Gly Thr Ser Ile Thr
 65 70 75 80
 60 Ala Ser Val Thr Ala Ser Ser Leu Ala Ser Ser Ser Pro Pro Ser Gly
 85 90 95
 His Ser Thr Pro Lys Leu Thr Pro Arg Ser Pro Ala Arg Glu Met Asp
 100 105 110

Arg Met Gly Val Met Thr Leu Pro Ser Asp Xaa Arg Lys His Arg Arg
 ~ 115 120 125
 Lys Ile Ala Val Val Glu Glu Asp Gly Arg Glu Asp Lys Ala Thr Ile
 130 135 140
 5 Lys Cys Glu Thr Ser Pro Pro Thr Pro Arg Ala Leu Arg Met Thr
 145 150 155 160
 His Thr Leu Pro Ser Ser Tyr His Asn Asp Ala Arg Ser Ser Leu Ser
 165 170 175
 Val Ser Leu Glu Pro Glu Ser Leu Gly Leu Gly Ser Ala Asn Ser Ser
 180 185 190
 10 Gln Asp Ser Xaa His Lys Ala Pro Lys Lys Lys Gly Ile Lys Ser Ser
 195 200 205
 Ile Gly Arg Leu Phe Gly
 210
 15
 <210> 1217
 <211> 63
 <212> PRT
 <213> Homo sapiens
 20
 <400> 1217
 Leu Leu Leu Ile Arg Arg Trp Trp Pro Cys Val Asn Gln Asn Val His
 1 5 10 15
 Xaa Gln Arg Lys Met Ala Ser Ser Arg Gly Ile Xaa Gln Ser Gln Asn
 20 25 30
 25 Xaa Phe Glu Gly Met Glu Pro Gly Thr Glu Ser Pro Xaa Lys Ser Val
 35 40 45
 Xaa Pro Met Gly Phe Leu Asp Leu Thr Arg Xaa Lys Leu Val Gln
 50 55 60
 30
 <210> 1218
 <211> 169
 <212> PRT
 <213> Homo sapiens
 35
 <400> 1218
 Arg Cys Glu Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu Gly
 1 5 10 15
 Val Lys Gln Tyr Gly Ser Asn Ser Pro Tyr Ile Arg Thr Leu Leu Asp
 20 25 30
 40 Ser Ile Ala His Gly Asn Arg Leu Thr Pro Tyr Asp Trp Glu Ile Leu
 35 40 45
 Ala Lys Ser Ser Leu Ser Ser Ser Gln Tyr Leu Gln Phe Lys Thr Trp
 50 55 60
 45 Trp Ile Asp Gly Val Gln Glu Gln Val Arg Lys Asn Gln Ala Thr Lys
 65 70 75 80
 Pro Thr Val Asn Ile Asp Ala Asp Gln Leu Leu Gly Thr Gly Pro Asn
 85 90 95
 Trp Ser Thr Ile Asn Gln Gln Ser Val Met Gln Asn Glu Ala Ile Glu
 100 105 110
 50 Gln Val Arg Ala Ile Cys Leu Arg Ala Trp Gly Lys Ile Gln Asp Pro
 115 120 125
 Gly Thr Ala Phe Pro Ile Asn Ser Ile Arg Gln Gly Ser Lys Glu Pro
 130 135 140
 55 Tyr Pro Ala Leu Trp Gln Asp Tyr Lys Met Leu Leu Lys Ser Leu Leu
 145 150 155 160
 Gln Met Thr Met Pro Glu Lys Leu Leu
 165
 60
 <210> 1219
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 1219

	Trp	Met	Ile	Arg	Leu	Asn	Xaa	Ala	Xaa	Leu	Ile	Trp	Phe	Xaa	Gln	Asn
	1				5					10					15	
5	Val	Arg	Lys	Xaa	Asn	Phe	Pro	Ile	Leu	Tyr	Xaa	Ser	Xaa	Xaa	Glu	Pro
				20					25					30		
	His	Leu	Ile	Tyr	Gln	Gly	Pro	Leu	Xaa	Lys	Ala	Asn	Asp	Gln	Ala	Asp
		35						40					45			
	Leu	Leu	Val	Ser	Ser	Ala	Phe	Met	Xaa	Ala	Gln	Glu	Leu	His	Ala	Leu
10		50					55					60				
	Thr	His	Val	Asn	Ala	Ile	Gly	Leu	Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp
	65				70					75				80		
	Lys	Gln	Pro	Lys	Asn	Ile	Val	Gln	His	Cys	Thr	Gln	Cys	Gln	Ile	Leu
				85					90					95		
15	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg	Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro
				100					105					110		
	Asn	Val	Leu	Trp	Gln	Met	Asp	Val	Met	His	Val	Pro	Ser	Phe	Gly	Lys
		115					120						125			
	Leu	Ser	Phe	Val	His	Val	Thr	Val	Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp
20		130					135					140				
	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser	Thr	Ser	His	Val	Lys	Arg	His	Leu
	145					150					155				160	
	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly	Val	Pro	Glu	Lys	Val	Lys	Thr	Asp
				165					170					175		
25	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys	Ala	Phe	Gln	Lys	Xaa	Leu	Asn	Gln
				180					185					190		
	Trp	Lys	Ile	Thr	His	Thr	Ile	Gly	Ile	Leu	Tyr	Asn	Ser	Gln	Gly	Gln
		195					200					205				
	Ala	Ile	Ile	Glu	Arg	Thr	Asn	Arg	Thr	Leu	Lys	Ala	Gln	Leu	Val	Lys
30		210					215					220				

<210> 1220

<211> 178

<212> PRT

35 <213> Homo sapiens

<400> 1220

	Gln	Pro	Thr	Ala	Met	Ala	Ser	Asn	Ser	Pro	Ala	Thr	Gln	Asp	Ala	Ala
	1				5					10					15	
40	Leu	Tyr	Pro	Gln	Pro	Pro	Thr	Val	Arg	Leu	Asn	Pro	Thr	Ala	Ser	Arg
				20					25					30		
	Ser	Gly	Gln	Gly	Gly	Ala	Leu	His	Ala	Val	Ile	Asp	Glu	Ala	Arg	Lys
			35				40					45				
	Gln	Gly	Asp	Leu	Glu	Ala	Trp	Arg	Phe	Leu	Val	Ile	Leu	Gln	Leu	Val
45		50					55					60				
	Gln	Ala	Gly	Glu	Glu	Thr	Gln	Val	Gly	Ala	Pro	Ala	Arg	Ala	Glu	Thr
	65				70				75					80		
	Arg	Cys	Glu	Pro	Phe	Thr	Met	Lys	Met	Leu	Lys	Asp	Ile	Lys	Glu	Gly
				85					90					95		
50	Val	Lys	Gln	Tyr	Gly	Ser	Asn	Ser	Pro	Tyr	Ile	Arg	Thr	Leu	Leu	Asp
				100					105					110		
	Ser	Ile	Ala	His	Gly	Asn	Arg	Leu	Thr	Pro	Tyr	Asp	Trp	Glu	Ile	Leu
		115					120						125			
	Ala	Lys	Ser	Ser	Phe	His	Pro	Leu	Ser	Ile	Tyr	Ser	Leu	Lys	Pro	Gly
55		130					135					140				
	Gly	Leu	Met	Glu	Tyr	Lys	Glu	Gln	Val	Arg	Lys	Asn	Gln	Ala	Thr	Asn
	145					150				155				160		
	Pro	Cys	Tyr	Ile	Asp	Ala	Asp	Gln	Leu	Leu	Gly	Thr	Gly	Gln	Ile	Gly
				165					170					175		
60	Ala	His														

<210> 1221

<211> 152
 <212> PRT
 <213> Homo sapiens

5 <400> 1221
 Lys Ile Asn Leu Ile Ser His Gly Asn Arg Gln Lys Ile Leu Tyr Asn
 1 5 10 15
 Ile Ala Pro Ser Val Arg Phe Tyr Thr Trp Pro Leu Arg Arg Gln Glu
 20 25 30
 10 Leu Ile Pro Glu Val Tyr Val Leu Met Cys Tyr Gly Lys Trp Met Ser
 35 40 45
 Cys Thr Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
 50 55 60
 Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
 15 65 70 75 80
 Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
 85 90 95
 Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
 100 105 110
 20 Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
 115 120 125
 Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Arg Thr Asn Arg
 130 135 140
 Thr Leu Lys Ala Gln Leu Val Lys
 25 145 150

<210> 1222
 <211> 231
 <212> PRT
 <213> Homo sapiens

30 <400> 1222
 Arg Glu Ser Pro Lys Tyr Val His Gly Gln Pro Cys Gly Lys Leu Val
 1 5 10 15
 35 Cys Leu Glu Glu Pro Arg Val Thr Met Gly Gln Thr Glu Ser Lys Tyr
 20 25 30
 Ala Ser Tyr Leu Ser Phe Ile Lys Ile Leu Leu Arg Arg Gly Gly Val
 35 40 45
 Arg Ala Ser Thr Glu Asn Leu Ile Thr Leu Phe Gln Thr Ile Glu Gln
 40 50 55 60
 Phe Cys Pro Trp Phe Pro Glu Gln Gly Thr Leu Asp Leu Lys Asp Trp
 65 70 75 80
 Glu Lys Ile Gly Lys Glu Leu Lys Gln Ala Asn Arg Glu Gly Lys Ile
 85 90 95
 45 Ile Pro Leu Thr Val Trp Asn Asp Trp Ala Ile Ile Lys Ala Thr Leu
 100 105 110
 Glu Pro Phe Gln Thr Gly Glu Asp Ile Val Ser Val Ser Asp Ala Pro
 115 120 125
 Lys Ser Cys Val Thr Asp Cys Glu Glu Glu Ala Gly Thr Glu Ser Gln
 50 130 135 140
 Gln Gly Thr Glu Ser Ser His Cys Lys Tyr Val Ala Glu Ser Val Met
 145 150 155 160
 Ala Gln Ser Thr Gln Asn Val Asp Tyr Ser Gln Leu Gln Glu Ile Ile
 165 170 175
 55 Tyr Pro Glu Ser Ser Lys Leu Gly Glu Gly Gly Pro Glu Ser Leu Gly
 180 185 190
 Pro Ser Glu Pro Lys Pro Arg Ser Pro Ser Thr Pro Pro Ser Ala Val
 195 200 205
 60 Gln Met Pro Val His Ser Thr Ser Asn Arg Arg Leu Asp Lys Pro Lys
 210 215 220
 Pro Pro Arg Glu Asn Gln Val
 225 230

<210> 1223
 <211> 299
 <212> PRT
 <213> Homo sapiens

5

<400> 1223
 Glu Gly Ser Arg Gly Gly Arg Glu Gly Ala Gly Lys Met Val Val
 1 5 10 15
 Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile Gln Ala Ala Ser Ala Glu
 20 25 30
 Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn Gly Ile Gln Ala His Pro
 35 40 45
 Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr Thr Ala Glu Ser Gln Thr
 50 55 60
 Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr Pro Lys Ala Arg Lys Arg
 65 70 75 80
 Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys Gly Thr Glu Pro Ser Thr
 85 90 95
 Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn Tyr Ser Val Ser Glu His
 100 105 110
 His Asp Thr Ile Leu Arg Val Thr Arg Arg Arg Gln Ile Leu Ile Ala
 115 120 125
 Cys Ser Pro Val Ser Ser Val Arg Lys Lys Pro Lys Val Thr Pro Thr
 130 135 140
 Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser Glu Ala Glu Ser His Val
 145 150 155 160
 Ser Gly Ile Ser Arg Ile Val Leu Pro Thr Glu Lys Thr Thr Gly Ala
 165 170 175
 Arg Arg Ser Lys Ala Lys Ser Leu Thr Asp Pro Ser Gln Glu Ser His
 180 185 190
 Thr Glu Ala Ile Ser Asp Ala Glu Thr Ser Ser Ser Asp Ile Ser Phe
 195 200 205
 Ser Gly Ile Ala Thr Arg Arg Thr Arg Ser Met Gln Arg Lys Leu Lys
 210 215 220
 Ala Gln Thr Glu Lys Lys Asp Ser Lys Ile Val Pro Gly Asn Glu Lys
 225 230 235 240
 Gln Ile Val Gly Thr Pro Val Asn Ser Glu Asp Ser Asp Thr Arg Gln
 245 250 255
 Thr Ser His Leu Gln Ala Arg Ser Leu Ser Glu Ile Asn Lys Pro Asn
 260 265 270
 Phe Tyr Asn Asn Asp Phe Asp Asp Phe Ser His Arg Ser Ser Glu
 275 280 285
 Asn Ile Leu Thr Val His Arg Thr Gly Gln Cys
 290 295

45

<210> 1224
 <211> 182
 <212> PRT
 <213> Homo sapiens

50

<400> 1224
 Val Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile Gln Ala Ala Ser Ala
 1 5 10 15
 Glu Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn Gly Ile Gln Ala His
 20 25 30
 Pro Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr Thr Ala Glu Ser Gln
 35 40 45
 Thr Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr Pro Lys Ala Arg Lys
 50 55 60
 Arg Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys Gly Thr Glu Pro Ser
 65 70 75 80
 Thr Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn Tyr Ser Val Ser Glu
 85 90 95

His His Asp Thr Ile Leu Arg Val Thr Arg Arg Arg Gln Ile Leu Ile
 100 105 110
 Ala Cys Ser Pro Val Ser Ser Val Arg Lys Lys Pro Lys Val Thr Pro
 115 120 125
 5 Thr Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser Glu Ala Glu Ser His
 130 135 140
 Val Ser Gly Ile Ser Arg Ile Xaa Leu Pro Thr Glu Lys Thr Thr Gly
 145 150 155 160
 Ala Arg Arg Ser Lys Xaa Lys Ser Leu Asp Arg Ser Asn Gln Glu Ser
 10 165 170 175
 His Thr Arg Asn Tyr Ile
 180

 <210> 1225
 15 <211> 194
 <212> PRT
 <213> Homo sapiens

 <400> 1225
 20 Ser Ile Ala Leu Gly Leu Arg Ile Xaa Gln Leu Gly Gly Leu Tyr Ile
 1 5 10 15
 Asn Phe Xaa Ala Asp Lys Xaa Gln Phe Asn Lys Arg Thr Xaa Xaa Gln
 20 25 30
 Xaa Lys Xaa Lys Lys Lys Asn Glu Phe Xaa Gln Lys Ala Val Ile Thr
 25 35 40 45
 Pro Asp Phe Glu Lys Asn His Cys Val Xaa Pro Tyr Ser Glu Ser Lys
 50 55 60
 Xaa Gln Leu Gln Lys Lys Arg Arg Lys Xaa Arg Gln Lys Pro Xaa Gly
 65 70 75 80
 30 Asp Gly Trp Phe Gly Met Lys Ala Pro Glu Met Thr Asn Glu Leu Lys
 85 90 95
 Asn Asp Xaa Lys Ala Xaa Lys Met Arg Ala Ser Met Asp Pro Lys Arg
 100 105 110
 Phe Xaa Lys Lys Asn Asp Arg Asp Gly Phe Pro Lys Tyr Phe Gln Ile
 35 115 120 125
 Gly Thr Ile Val Asp Asn Pro Ala Asp Xaa Tyr His Ser Xaa Ile Pro
 130 135 140
 Lys Lys Gln Arg Lys Arg Thr Ile Val Glu Glu Leu Leu Ala Asp Xaa
 145 150 155 160
 40 Glu Phe Arg Arg Tyr Asn Arg Arg Lys Xaa Ser Glu Ile Met Ala Glu
 165 170 175
 Lys Ala Ala Asn Ala Ala Gly Lys Lys Phe Arg Lys Lys Lys Lys Phe
 180 185 190
 Arg Asn
 45

 <210> 1226
 <211> 188
 <212> PRT
 50 <213> Homo sapiens

 <400> 1226
 Ser His Asp Thr Ile Leu Arg Val Thr Arg Arg Arg Gln Ile Leu Ile
 1 5 10 15
 55 Ala Cys Ser Pro Val Ser Ser Val Arg Lys Lys Pro Lys Val Thr Pro
 20 25 30
 Thr Lys Glu Ser Tyr Thr Glu Glu Ile Val Ser Glu Ala Glu Ser His
 35 40 45
 Val Ser Gly Ile Ser Arg Ile Val Leu Pro Thr Glu Lys Thr Thr Gly
 50 55 60
 60 Ala Arg Arg Ser Lys Ala Lys Ser Leu Thr Asp Pro Ser Gln Glu Ser
 65 70 75 80
 His Thr Glu Ala Ile Ser Asp Ala Glu Thr Ser Ser Ser Asp Ile Ser

85 90 95
 Phe Ser Gly Ile Ala Thr Arg Arg Thr Arg Ser Met Gln Arg Lys Leu
 100 105 110
 5 Lys Ala Gln Thr Glu Lys Lys Asp Ser Lys Ile Val Pro Gly Asn Glu
 115 120 125
 Lys Gln Ile Val Gly Thr Pro Val Asn Ser Glu Asp Ser Asp Thr Arg
 130 135 140
 Gln Thr Ser His Leu Gln Ala Arg Ser Leu Ser Glu Ile Asn Lys Pro
 145 150 155 160
 10 Asn Phe Tyr Asn Asn Asp Phe Asp Asp Asp Phe Ser His Arg Ser Ser
 165 170 175
 Glu Asn Ile Leu Thr Val His Arg Thr Gly Gln Cys
 180 185
 15 <210> 1227
 <211> 199
 <212> PRT
 <213> Homo sapiens
 20 <400> 1227
 Glu Glu Gly Ser Arg Gly Gly Arg Glu Gly Ala Gly Lys Met Val Val
 1 5 10 15
 Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile Gln Ala Ala Ser Ala Glu
 20 25 30
 25 Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn Gly Ile Gln Ala His Pro
 35 40 45
 Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr Thr Ala Glu Ser Gln Thr
 50 55 60
 Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr Pro Lys Ala Arg Lys Arg
 65 70 75 80
 30 Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys Gly Thr Glu Pro Ser Thr
 85 90 95
 Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn Tyr Ser Val Ser Glu His
 100 105 110
 35 His Asp Thr Ile Leu Arg Val Thr Arg Arg Arg Gln Ile Leu Ile Ala
 115 120 125
 Cys Ser Pro Val Ser Xaa Val Arg Lys Lys Pro Lys Val Thr Pro Thr
 130 135 140
 Lys Glu Ser Tyr Thr Glu Glu Ile Xaa Ser Glu Ala Lys Xaa His Val
 145 150 155 160
 40 Ser Xaa Ile Ser Arg Ile Xaa Leu Pro Thr Xaa Lys Thr Thr Gly Ala
 165 170 175
 Arg Xaa Ser Lys Ala Lys Ser Leu Thr Xaa Pro Ser Gln Glu Ser His
 180 185 190
 45 Thr Glu Ala Ile Ser Asp Ala
 195
 <210> 1228
 <211> 132
 50 <212> PRT
 <213> Homo sapiens
 <400> 1228
 Ile Lys Asp Gln Leu Gln Lys Lys Arg Arg Lys Glu Arg Gln Lys Thr
 1 5 10 15
 Ala Gly Asp Gly Trp Phe Gly Met Lys Ala Pro Glu Met Thr Asn Glu
 20 25 30
 Leu Lys Asn Asp Leu Lys Ala Leu Lys Met Arg Ala Ser Met Asp Pro
 35 40 45
 60 Lys Arg Phe Xaa Lys Lys Asn Asp Arg Asp Gly Phe Pro Lys Tyr Phe
 50 55 60
 Gln Ile Gly Thr Ile Val Xaa Asn Pro Ala Asp Phe Tyr His Ser Arg
 65 70 75 80

```

Ile Pro Lys Lys Gln Arg Lys Arg Thr Ile Val Glu Glu Leu Leu Ala
      85          90          95
Asp Ser Glu Phe Arg Arg Tyr Asn Arg Arg Lys Tyr Ser Glu Ile Met
      100          105          110
5  Ala Glu Lys Ala Ala Asn Ala Ala Gly Lys Lys Phe Arg Lys Lys Lys
      115          120          125
Lys Phe Arg Asn
      130

10      <210> 1229
      <211> 117
      <212> PRT
      <213> Homo sapiens

15      <400> 1229
Ser Pro Ser Ile Leu Ser Asp Ser Ser Ser Cys Glu Ile Ala Tyr Gln
1      5      10      15
Asp Ala Val Asn Leu Gln Asn Tyr Val Glu Glu Lys Leu Ile Pro Thr
      20      25      30
20  Trp Asn Trp Met Val Ser Ile Met Asp Ser Thr Glu Ala Gln Leu Arg
      35      40      45
Tyr Gly Ser Ala Leu Ala Ser Ala Gly Asp Pro Gly His Pro Asn His
50      55      60
Pro Leu His Ala Ser Gln Asn Ser Ala Arg Arg Glu Arg Met Thr Ala
25  65      70      75      80
Arg Glu Glu Ala Ser Leu Arg Thr Leu Glu Gly Arg Arg Arg Ala Thr
      85      90      95
Leu Leu Ser Ala Arg Gln Gly Met Met Ser Ala Arg Gly Asp Phe Leu
      100      105      110
30  Asn Tyr Ala Leu Leu
      115

      <210> 1230
      <211> 143
35  <212> PRT
      <213> Homo sapiens

      <400> 1230
Asp Asp Ile Glu Gln Glu Thr Phe Met Leu Asp Glu Pro Leu Glu Arg
40  1      5      10      15
Thr Thr Asn Ser Ser His Ala Asn Gly Ala Ala Gln Ala Pro Arg Ser
      20      25      30
Met Gln Trp Ala Val Arg Asn Thr Gln His Gln Arg Ala Ala Ser Thr
      35      40      45
45  Ala Pro Ser Ser Thr Ser Thr Pro Ala Ala Ser Ser Ala Gly Leu Ile
      50      55      60
Tyr Ile Asp Pro Ser Asn Leu Arg Arg Ser Gly Thr Ile Ser Thr Ser
65      70      75      80
Ala Ala Ala Ala Ala Ala Ala Leu Glu Ala Ser Asn Ala Ser Ser Tyr
50      85      90      95
Leu Thr Ser Ala Ser Ser Leu Ala Arg Ala Tyr Ser Ile Val Ile Arg
      100      105      110
Gln Ile Ser Asp Leu Met Gly Leu Ile Pro Lys Tyr Asn His Leu Val
      115      120      125
55  Tyr Ser Gln Ile Pro Ala Ala Val Lys Leu Leu Thr Lys Met Gln
      130      135      140

      <210> 1231
      <211> 140
60  <212> PRT
      <213> Homo sapiens

      <400> 1231

```

Leu Ala Arg Ala Tyr Ser Ile Val Ile Arg Gln Ile Ser Asp Leu Met
 1 5 10 15
 Gly Leu Ile Pro Lys Tyr Asn His Leu Val Tyr Ser Gln Ile Pro Ala
 20 25 30
 5 Ala Val Lys Leu Thr Tyr Gln Asp Ala Val Asn Leu Gln Asn Tyr Val
 35 40 45
 Glu Glu Lys Leu Ile Pro Thr Trp Asn Trp Met Val Ser Ile Met Asp
 50 55 60
 Ser Thr Glu Ala Gln Leu Arg Tyr Gly Ser Ala Leu Ala Ser Ala Gly
 65 70 75 80
 10 Asp Pro Gly His Pro Asn His Pro Leu His Ala Ser Gln Asn Ser Ala
 85 90 95
 Arg Arg Glu Arg Met Thr Ala Arg Glu Glu Ala Ser Leu Arg Thr Leu
 100 105 110
 15 Glu Gly Arg Arg Arg Ala Thr Leu Leu Ser Ala Arg Gln Gly Met Met
 115 120 125
 Ser Ala Arg Gly Asp Phe Leu Asn Tyr Ala Leu Leu
 130 135 140
 20 <210> 1232
 <211> 143
 <212> PRT
 <213> Homo sapiens
 25 <400> 1232
 Asp Asp Ile Glu Gln Glu Thr Phe Met Leu Asp Glu Pro Leu Glu Arg
 1 5 10 15
 Thr Thr Asn Ser Ser His Ala Asn Gly Ala Ala Gln Ala Pro Arg Ser
 20 25 30
 30 Met Gln Trp Ala Val Arg Asn Thr Gln His Gln Arg Ala Ala Ser Thr
 35 40 45
 Ala Pro Ser Ser Thr Ser Thr Pro Ala Ala Ser Ser Ala Gly Leu Ile
 50 55 60
 Tyr Ile Asp Pro Ser Asn Leu Arg Arg Ser Gly Thr Ile Ser Thr Ser
 65 70 75 80
 35 Ala Ala Ala Ala Ala Ala Leu Glu Ala Ser Asn Ala Ser Ser Tyr
 85 90 95
 Leu Thr Ser Ala Ser Ser Leu Ala Arg Ala Tyr Ser Ile Val Ile Arg
 100 105 110
 40 Gln Ile Ser Asp Leu Met Gly Leu Ile Pro Lys Tyr Asn His Leu Val
 115 120 125
 Tyr Ser Gln Ile Pro Ala Ala Val Lys Leu Leu Thr Lys Met Gln
 130 135 140
 45 <210> 1233
 <211> 93
 <212> PRT
 <213> Homo sapiens
 50 <400> 1233
 Phe Phe Gln Phe Lys Arg Trp Xaa Trp Ser Ile Val Glu Lys Met Ser
 1 5 10 15
 Met Xaa Asp Xaa Gln Asp Leu Val Tyr Phe Trp Thr Ser Ser Pro Ser
 20 25 30
 55 Leu Pro Ala Ser Glu Glu Gly Phe Gln Pro Met Pro Ser Ile Thr Ile
 35 40 45
 Arg Pro Pro Asp Asp Gln His Leu Pro Thr Ala Asn Thr Cys Ile Ser
 50 55 60
 Arg Leu Tyr Val Pro Leu Tyr Ser Ser Lys Gln Ile Leu Lys Gln Lys
 65 70 75 80
 60 Leu Leu Leu Ala Ile Lys Thr Lys Asn Phe Gly Phe Val
 85 90

<210> 1234
 <211> 196
 <212> PRT
 <213> Homo sapiens

5

<400> 1234
 Arg Val Pro Val Val Ile Ala Gly Val Val Tyr Cys Gln Glu Ala Leu
 1 5 10 15
 Arg Asp Trp Gly Arg Val Thr Ala Ser Ser Thr Gly Ala Met Ala Phe
 10 20 25 30
 Leu Arg Ser Met Trp Gly Val Leu Ser Ala Leu Gly Arg Ser Gly Ala
 35 40 45
 Glu Leu Cys Thr Gly Cys Gly Ser Arg Leu Arg Ser Pro Phe Ser Phe
 50 55 60
 Val Tyr Leu Pro Arg Trp Phe Ser Ser Val Leu Ala Ser Cys Pro Lys
 15 65 70 75 80
 Lys Pro Val Ser Ser Tyr Leu Arg Phe Ser Lys Glu Gln Leu Pro Ile
 85 90 95
 Phe Lys Ala Gln Asn Pro Asp Ala Lys Thr Thr Glu Leu Ile Arg Arg
 100 105 110
 Ile Ala Gln Arg Trp Arg Glu Leu Pro Asp Ser Lys Lys Lys Ile Tyr
 115 120 125
 Gln Asp Ala Tyr Arg Ala Glu Trp Gln Val Tyr Lys Glu Glu Ile Ser
 130 135 140
 Arg Phe Lys Glu Gln Leu Thr Pro Ser Gln Ile Met Ser Leu Glu Lys
 145 150 155 160
 Glu Ile Met Asp Lys His Leu Lys Arg Lys Ala Met Thr Lys Lys Lys
 165 170 175
 Glu Leu Thr Leu Leu Gly Lys Pro Lys Arg Pro Arg Ser Ala Tyr Asn
 180 185 190
 Arg Leu Cys Ser
 195

<210> 1235
 <211> 58
 <212> PRT
 <213> Homo sapiens

35

<400> 1235
 Trp Lys Asn Leu Ser Asp Ser Glu Lys Glu Leu Tyr Ile Gln His Ala
 1 5 10 15
 Lys Glu Asp Glu Thr Arg Tyr His Asn Glu Met Lys Ser Trp Glu Glu
 20 25 30
 Gln Met Ile Glu Val Gly Arg Lys Asp Leu Leu Arg Arg Thr Ile Lys
 35 40 45
 Lys Gln Arg Lys Tyr Gly Ala Glu Glu Cys
 50 55

<210> 1236
 <211> 196
 <212> PRT
 <213> Homo sapiens

50

<400> 1236
 Arg Val Pro Val Val Ile Ala Gly Val Val Tyr Cys Gln Glu Ala Leu
 1 5 10 15
 Arg Asp Trp Gly Arg Val Thr Ala Ser Ser Thr Gly Ala Met Ala Phe
 20 25 30
 Leu Arg Ser Met Trp Gly Val Leu Ser Ala Leu Gly Arg Ser Gly Ala
 35 40 45
 Glu Leu Cys Thr Gly Cys Gly Ser Arg Leu Arg Ser Pro Phe Ser Phe
 50 55 60
 Val Tyr Leu Pro Arg Trp Phe Ser Ser Val Leu Ala Ser Cys Pro Lys

[illegible]

```

20      <210> 1237
        <211> 225
        <212> PRT
        <213> Homo sapiens

```

[illegible]

```
55      <210> 1238
      <211> 95
      <212> PRT
      <213> Homo sapiens
```

60
 <400> 1238
 Gly Gly Arg Gln Ser Leu Pro Leu Thr Leu Tyr Phe Gln Gly Asp Thr
 1 5 10 15

Asp Tyr Lys Lys Arg Asn Ser Ala Leu Gly Lys Lys Ala Leu Pro Gly
 20 25 30
 Leu Thr Val Gln His Ser Leu Ala Ser Gly Ile Leu Ser Leu Leu Thr
 35 40 45
 5 Val Tyr Ile Thr Thr Leu Val His Ser Gly His Phe Ser Phe Leu Glu
 50 55 60
 Ser Pro Val Asp Leu Thr Pro Met Pro Met Ile Phe Phe Ser Trp Leu
 65 70 75 80
 10 Ile Lys Asn Ser Leu Phe Leu Leu Arg His Pro Cys His Tyr Lys
 85 90 95

<210> 1239

<211> 113

<212> PRT

15 <213> Homo sapiens

<400> 1239

Thr Glu Val Arg Ala Ser Gln Val Val Phe Xaa Thr Ser Val Ser Pro
 1 5 10 15
 20 Lys Xaa Ser Ser Leu Gln Xaa Asp Met Arg Xaa Xaa Arg Gly Lys Lys
 20 25 30
 Val Phe Xaa Val Leu His Leu Gln Lys Xaa Val Xaa Ser Gln Asp Pro
 35 40 45
 25 Leu Gly Ala Thr Arg Gly Pro Ala Gln Cys Gln Gln Trp Thr Pro Pro
 50 55 60
 Ala Gly Thr Pro Pro Gly Ala Arg Ala Gly Pro Pro Gly Val Val Ala
 65 70 75 80
 Cys Thr Glu Gly Thr Thr Tyr Val Cys Ser Val Cys Pro Ala Lys Phe
 85 90 95
 30 Asp Gln Ile Glu Gln Phe Asn Asp His Met Arg Met His Val Ser Asp
 100 105 110
 Gly

35 <210> 1240

<211> 177

<212> PRT

<213> Homo sapiens

40 <400> 1240

Ala Ala Cys Cys Gly Thr Ala Ala Ala Phe Leu Leu Gly Arg Arg Gly
 1 5 10 15
 Gln Val Ala Gly Pro Arg Gln Gln Ser Pro Pro Gly Pro Gly Gly Ala
 20 25 30
 45 Ala Glu Arg Ala Ala Gly His Ala Arg Pro His Leu Arg Tyr Glu Val
 35 40 45
 Gln Arg Leu Pro Glu Gln Ala Gly Lys Ala Ala Gln Lys Gly Asn Cys
 50 55 60
 Pro Ser Pro Lys Gln Ala Glu Pro Ala Ala Gln Pro Ala Pro Ala His
 65 70 75 80
 50 Gly Ala Arg Leu Gly Arg Leu Arg Arg Gly Arg Ser Cys Ala Gly Ala
 85 90 95
 Arg Arg Arg Ala Lys Lys Ser Phe Arg Gly Trp Arg Leu Phe Cys Ser
 100 105 110
 55 Gln Gly Lys Gly Arg Gly Ala His Ala Glu Thr Xaa Xaa Val Glu Glu
 115 120 125
 Glu Xaa Pro Xaa Lys Ala Pro Gly Arg Arg Ser Ser Pro Xaa Ala Phe
 130 135 140
 Gly Val Xaa Arg Ala Asn Xaa Glu Pro Gly Arg Gly Pro Trp Gly Arg
 145 150 155 160
 60 Lys Ala Thr Pro Arg Arg Pro Trp Ala Phe Glu Phe Lys Ile Phe Phe
 165 170 175
 Gln

5 <210> 1241
 <211> 270
 <212> PRT
 <213> Homo sapiens

<400> 1241
 10 Leu Lys Glu Val Pro Asp Tyr Leu Asp His Ile Lys His Pro Met Asp
 1 5 10 15
 Phe Ala Thr Met Arg Lys Arg Leu Glu Ala Gln Gly Tyr Lys Asn Leu
 20 25 30
 His Glu Phe Glu Glu Asp Phe Asp Leu Ile Ile Asp Asn Cys Met Lys
 35 40 45
 15 Tyr Asn Ala Arg Asp Thr Val Phe Tyr Arg Ala Ala Val Arg Leu Arg
 50 55 60
 Asp Gln Gly Gly Val Val Leu Arg Gln Ala Arg Arg Glu Val Asp Ser
 65 70 75 80
 Ile Gly Leu Glu Glu Ala Ser Gly Met His Leu Pro Glu Arg Pro Ala
 85 90 95
 20 Ala Ala Pro Arg Arg Pro Phe Ser Trp Glu Asp Val Asp Arg Leu Leu
 100 105 110
 Asp Pro Ala Asn Arg Ala His Leu Gly Leu Glu Glu Gln Leu Arg Glu
 115 120 125
 25 Leu Leu Asp Met Leu Asp Leu Thr Cys Ala Met Lys Ser Ser Gly Ser
 130 135 140
 Arg Ser Lys Arg Ala Lys Leu Leu Lys Lys Glu Ile Ala Leu Leu Arg
 145 150 155 160
 Asn Lys Leu Ser Gln Gln His Ser Gln Pro Leu Pro Thr Gly Pro Gly
 165 170 175
 30 Leu Glu Gly Phe Glu Glu Asp Gly Ala Ala Leu Gly Pro Gly Gly Gly
 180 185 190
 Arg Arg Ser Pro Ser Glu Val Gly Asp Ser Ser Ala Ala Lys Glu Lys
 195 200 205
 35 Val Ala Glu His Met Arg Arg Leu Xaa Xaa Trp Arg Arg Ser Xaa Xaa
 210 215 220
 Glu Lys Arg Leu Asp Ala Gly Leu His Gln Xaa Leu Leu Gly Cys Xaa
 225 230 235 240
 Glu Pro Thr Xaa Asn Pro Ala Gly Gly Leu Gly Gly Gly Arg Pro His
 245 250 255
 40 Pro Asp Asp Leu Gly Pro Ser Ser Ser Arg Phe Ser Phe Lys
 260 265 270

45 <210> 1242
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1242
 50 Met Phe Asn Asn Phe Val Asn His Ala Leu Tyr Xaa Glu Tyr His Leu
 1 5 10 15
 Phe Asn Lys Thr Gly Cys Lys Phe Thr Met Thr Asn Val Tyr Phe Lys
 20 25 30
 Lys Glu Asn Xaa Ile Ile Leu Asn Gly Thr Leu Trp Lys Glu Gly Arg
 35 40 45
 55 Ile Lys Leu Cys Cys Asp Ile Thr Cys Arg Ser Pro Lys Thr Leu Arg
 50 55 60
 Cys Pro
 65

60 <210> 1243
 <211> 85
 <212> PRT

<213> Homo sapiens

<400> 1243

5 Ser Tyr Ala Val Thr Ser Leu Ala Asp His Gln Lys His Ser Ala Ala
 1 5 10 15
 Arg Asp Arg Arg Trp Val Cys Pro Arg Ser Arg Arg Pro Ala His Leu
 20 25 30
 Lys Pro Arg Arg Cys Ala Ser Gln Arg Ile Ile Tyr Cys Arg Lys Cys
 35 40 45
 10 Ile His Leu Leu Tyr Asn Glu Lys Tyr Ile Cys Lys Gly Ile Leu Ile
 50 55 60
 Cys Ile Phe Ile Gln Ala His Lys Asn Ser Thr Trp Leu Gly Ser Arg
 65 70 75 80
 Met His Cys Ile Val
 15 85

<210> 1244

<211> 56

<212> PRT

20 <213> Homo sapiens

<400> 1244

Val Val Leu Xaa Val Lys Ser Met Ile Tyr Lys Ile Ile Lys His Ser
 1 5 10 15
 25 Lys Val Phe Lys Lys Leu His Ile Lys Xaa Ser Asp Ala Xaa Thr
 20 25 30
 Pro Xaa Leu Gly Asp Val Arg Xaa Xaa Xaa Leu Gly Leu Pro Gly Arg
 35 40 45
 Ala Pro Pro Leu Tyr Arg Ala Lys
 30 50 55

<210> 1245

<211> 227

<212> PRT

35 <213> Homo sapiens

<400> 1245

Gly Asp Pro Val Gly Arg Glu Glu Gly Gly Lys Met Val Leu Glu Ser
 1 5 10 15
 40 Thr Met Val Cys Val Asp Asn Ser Glu Tyr Met Arg Asn Gly Asp Phe
 20 25 30
 Leu Pro Thr Arg Leu Gln Ala Gln Gln Asp Ala Val Asn Ile Val Cys
 35 40 45
 His Ser Lys Thr Arg Ser Asn Pro Glu Asn Asn Val Gly Leu Ile Thr
 45 50 55 60
 Leu Ala Asn Asp Cys Glu Val Leu Thr Thr Leu Thr Pro Asp Thr Gly
 65 70 75 80
 Arg Ile Leu Ser Lys Leu His Thr Val Gln Pro Lys Gly Lys Ile Thr
 85 90 95
 50 Phe Cys Thr Gly Ile Arg Val Ala His Leu Ala Leu Lys His Arg Gln
 100 105 110
 Gly Lys Asn His Lys Met Arg Ile Ile Ala Phe Val Gly Ser Pro Val
 115 120 125
 Glu Asp Asn Glu Lys Asp Leu Val Lys Leu Ala Lys Arg Leu Lys Lys
 55 130 135 140
 Glu Lys Val Asn Val Asp Ile Ile Asn Phe Gly Glu Glu Glu Val Asn
 145 150 155 160
 Thr Glu Lys Leu Thr Ala Phe Val Asn Thr Leu Asn Gly Lys Asp Gly
 165 170 175
 60 Thr Gly Ser Tyr Leu Val Thr Val Pro Ser Gly Pro Ser Leu Ala Asp
 180 185 190
 Ala Leu Ile Ser Ser Xaa Ile Leu Ala Gly Glu Xaa Gly Ala Leu Ala
 195 200 205

Gly Ser Trp Val Pro Val Thr Phe Glu Phe Trp Ser Xaa Ile Pro Xaa
 210 215 220
 Leu Asp Pro
 225

5

<210> 1246
 <211> 141
 <212> PRT
 <213> Homo sapiens

10

<400> 1246
 Gln Asn Thr Ala Lys Val Asn Cys Val Gly Glu Pro His Leu His Arg
 1 5 10 15
 Asn Gln Ile Asn Glu Phe Arg Gly Tyr Asp Tyr Ser Asn Leu Arg Ala
 20 25 30
 His Gln Lys Gln Ala Ser Arg Ser Gln Phe Ala Ser Val Cys Leu Ser
 35 40 45
 Gly Asp Lys Trp Glu Asn Met Val Pro Pro Val Arg Asp Pro Leu Ser
 50 55 60
 Cys Ala Ala His Ser Thr Thr Ser Leu Cys Cys Phe His Gln Ala Glu
 65 70 75 80
 Thr Leu Pro Tyr Gly Val Tyr Gly Leu Leu Pro Val His Gln Cys Asp
 85 90 95
 Arg Lys Asp Ser Cys His Tyr Cys Pro Trp Leu Gln Phe Lys Gly Ile
 100 105 110
 Gln Cys Arg Cys Lys Phe Tyr Gly Thr Ile Phe Ile Gly Gly Phe Gly
 115 120 125
 Gln Asn Ala Val Val Val Gln Leu Ile Asn Thr Asn Cys
 130 135 140

20

25

30

<210> 1247
 <211> 106
 <212> PRT
 <213> Homo sapiens

35

<400> 1247
 Gly Pro Thr Arg Ser Arg Pro Arg Gly Val Asn Leu Pro Leu Cys Ala
 1 5 10 15
 Ser Val Glu Thr Ser Gly Lys Thr Trp Ser His Leu Cys Glu Thr Pro
 20 25 30
 Cys Pro Val Leu Leu Thr Gln Gln His Leu Cys Val Ala Phe Thr Arg
 35 40 45
 Leu Arg Pro Tyr Pro Met Gly Tyr Met Gly Phe Tyr Leu Cys Thr Ser
 50 55 60
 Val Thr Gly Lys Ile His Val Thr Thr Val Arg Gly Tyr Asn Ser Lys
 65 70 75 80
 Val Ser Asn Val Ala Val Asn Phe Met Ala Leu Phe Leu Leu Glu Asp
 85 90 95
 Leu Val Arg Met Gln Leu Leu Tyr Asn Ser
 100 105

40

45

50

<210> 1248
 <211> 194
 <212> PRT
 <213> Homo sapiens

55

<400> 1248
 Pro Lys Glu Glu Asp Met Glu Val Asp Ile Pro Ala Val Lys Val Lys
 1 5 10 15
 Glu Glu Pro Arg Asp Glu Glu Glu Glu Ala Lys Met Lys Ala Pro Pro
 20 25 30
 Lys Ala Ala Arg Lys Thr Pro Gly Leu Pro Lys Asp Val Ser Val Ala
 35 40 45

60

Glu Leu Leu Arg Glu Leu Ser Leu Thr Lys Glu Glu Glu Leu Leu Phe
 50 55 60
 Leu Gln Leu Pro Asp Thr Leu Pro Gly Gln Pro Pro Thr Gln Asp Ile
 65 70 75 80
 5 Lys Pro Ile Lys Thr Glu Val Gln Gly Glu Asp Gly Gln Val Val Leu
 85 90 95
 Ile Lys Gln Glu Lys Asp Arg Glu Ala Lys Leu Ala Glu Asn Ala Cys
 100 105 110
 10 Thr Leu Ala Asp Leu Thr Glu Gly Gln Val Gly Lys Leu Leu Ile Arg
 115 120 125
 Lys Ser Gly Arg Val Gln Leu Leu Gly Lys Val Thr Leu Asp Val
 130 135 140
 Thr Met Gly Thr Ala Cys Ser Phe Leu Gln Glu Leu Val Ser Val Gly
 145 150 155 160
 15 Leu Gly Asp Ser Arg Thr Gly Glu Met Thr Val Leu Gly His Val Lys
 165 170 175
 His Lys Leu Val Cys Ser Pro Asp Phe Glu Ser Leu Leu Asp His Lys
 180 185 190
 His Arg

20

<210> 1249

<211> 106

<212> PRT

25

<213> Homo sapiens

<400> 1249

Gln Gly Gln Val Pro Ser Ser Lys Asp Val Pro Ser Pro Arg Cys Arg
 1 5 10 15
 30 Lys Val Thr Val Pro Phe Thr Ala Ala Val Gly Gly Asn Pro Gly Gly
 20 25 30
 Pro Gly Thr Met Val Ala Lys Gly Trp Asn Glu Trp Ala Gln Met Gly
 35 40 45
 Pro Leu Leu Gly Xaa Gln Asn Ser Arg Thr Lys Cys Xaa Gly Gln Gly
 50 55 60
 35 Xaa Asn Pro Gly Ala Gln Gly Ala Xaa Leu Pro Ser Pro Xaa Tyr Phe
 65 70 75 80
 Tyr Arg Xaa Phe Gly Ile Pro Xaa Gly Ile Xaa Lys Ser Arg Gly Xaa
 85 90 95
 40 Tyr Xaa Phe Val Ala Tyr Val Phe Pro Arg
 100 105

<210> 1250

<211> 113

<212> PRT

45

<213> Homo sapiens

<400> 1250

Asp Ile Asn Thr Lys Ile Asn Ser Arg Ala Lys Ser Pro Ala Ala Arg
 1 5 10 15
 50 Met Cys His Leu His Ala Ala Gly Arg Ser Leu Cys His Ser Gln Leu
 20 25 30
 Leu Trp Glu Glu Thr Leu Gly Asp Leu Glu Gln Trp Leu Pro Lys Ala
 35 40 45
 55 Gly Met Ser Gly Leu Lys Trp Gly Pro Phe Trp Gly Xaa Lys Ile Gln
 50 55 60
 Glu Gln Asn Xaa Leu Asp Lys Ala Xaa Thr Arg Gly Pro Lys Ala Pro
 65 70 75 80
 Xaa Phe Leu His Leu Xaa Ile Phe Thr Xaa Gly Leu Gly Ser Gln Xaa
 85 90 95
 60 Gly Xaa Lys Asn Gln Gly Glu Xaa Thr Xaa Leu Trp Leu Thr Phe Ser
 100 105 110
 Gln

5 <210> 1251
 <211> 114
 <212> PRT
 <213> Homo sapiens

 <400> 1251
 10 Ala His Ser Phe Gln Pro Leu Ala Thr Ile Val Pro Gly Pro Pro Gly
 1 5 10 15
 Phe Pro Pro Thr Ala Ala Val Asn Gly Thr Val Thr Phe Leu Gln Arg
 20 25 30
 Gly Asp Gly Thr Ser Leu Leu Leu Gly Thr Trp Pro Cys Tyr Leu Phe
 35 40 45
 15 Leu Tyr Leu Cys Leu Asn Leu Phe His Leu Met His Pro Pro Arg Val
 50 55 60
 Asp Gly Glu Gly Leu Cys Glu Gly Ala Gly Phe Ser Trp Cys Leu Leu
 65 70 75 80
 20 Gly Cys Arg Gly Arg Lys Arg Val Asp Cys Ser Phe Cys Trp Cys Ser
 85 90 95
 Pro Arg Pro Pro Gly Gly Ser Ile Gly Glu Arg Ala Arg Ile Glu Ser
 100 105 110
 Glu Thr

 25 <210> 1252
 <211> 126
 <212> PRT
 <213> Homo sapiens

 <400> 1252
 30 Ser Glu Arg Ser Ser Met Ser Val Gly Leu Gly Arg Ser Gln Leu Asp
 1 5 10 15
 Ser Lys Gly Gly Val Val Gly Gly Thr Ile Asp Val Asn Ala Leu Glu
 20 25 30
 Met Xaa Ala His Ile Ser Glu His Pro Asn Gln Gln Pro Xaa His Lys
 35 40 45
 Ile Gln Ile Thr Met Gly Ser Thr Glu Ala Arg Val Asp Tyr Met Gly
 50 55 60
 40 Ser Ser Ile Leu Met Gly Ile Phe Ser Asn Ala Asp Leu Lys Leu Gln
 65 70 75 80
 Asp Glu Trp Lys Val Asn Leu Tyr Asn Thr Leu Asp Ser Ser Ile Thr
 85 90 95
 Asp Lys Ser Glu Ile Phe Val Xaa Trp Arg Phe Glu Xaa Gly Ile Phe
 100 105 110
 45 Phe Gln Xaa Asn Xaa Xaa Xaa Xaa Gln Pro His Xaa Ile Trp
 115 120 125

 <210> 1253
 <211> 87
 <212> PRT
 <213> Homo sapiens

 <400> 1253
 50 Lys Ser Leu Phe Phe Gly Gly Arg Leu Arg Asn Trp Ser Pro Arg Lys
 1 5 10 15
 Thr Glu Xaa Val Cys Trp Ile Lys Leu Leu Cys Glu Lys Ile Xaa Xaa
 20 25 30
 Ala Ser Phe Leu Phe Phe Thr Arg Xaa Gly Val Val Xaa Leu Xaa Xaa
 35 40 45
 60 Xaa Xaa Xaa Gly Lys Ile Ser His Xaa Gln Ile Ser Xaa Gly Arg Lys
 50 55 60
 Ser His Phe Tyr Gln Leu Cys Leu Asn Pro Met Tyr Tyr Thr Ser Leu

		65				70				75					80
		Leu Ser Ile His Pro Glu Ala													
						85									
5		<210>	1254												
		<211>	50												
		<212>	PRT												
		<213>	Homo sapiens												
10		<400>	1254												
	Lys Gln Leu Asn Val Gln Met Asn Met Ser Asn Val Met Gly Asn Thr														
	1 5 10 15														
	Thr Trp Thr Thr Ser Gly Leu Lys Ser Gln Gly Arg Leu Ser Val Gly														
		20 25 30													
15	Ser Asn Arg Asp Pro Arg Asp Gln Ala Cys Leu Leu Val Trp Glu Asp														
		35 40 45													
	His Asn														
	50														
20		<210>	1255												
		<211>	220												
		<212>	PRT												
		<213>	Homo sapiens												
25		<400>	1255												
	Glu Ala Gly Thr Thr Pro Ala Lys Asp Trp Thr Leu Val Glu Thr Pro														
	1 5 10 15														
	Pro Gly Glu Glu Gln Ala Lys Gln Asn Ala Asn Ser Gln Leu Ser Ile														
		20 25 30													
30	Leu Phe Ile Glu Lys Pro Gln Gly Thr Val Lys Val Gly Glu Asp														
		35 40 45													
	Ile Thr Phe Ile Ala Lys Val Lys Ala Glu Asp Leu Leu Arg Lys Pro														
	50 55 60														
	Thr Ile Lys Trp Phe Lys Gly Lys Trp Met Asp Leu Ala Ser Lys Ala														
35	65 70 75 80														
	Gly Lys His Leu Gln Leu Lys Glu Thr Phe Glu Arg His Ser Arg Val														
		85 90 95													
	Tyr Thr Phe Glu Met Gln Ile Ile Lys Ala Lys Asp Asn Phe Ala Gly														
		100 105 110													
40	Asn Tyr Arg Cys Glu Val Thr Tyr Lys Asp Lys Phe Asp Ser Cys Ser														
		115 120 125													
	Phe Asp Leu Glu Val His Glu Ser Thr Gly Thr Thr Pro Asn Ile Asp														
		130 135 140													
	Ile Arg Ser Ala Phe Lys Arg Arg Glu Val Lys Gln Gln Glu Glu Glu														
45	145 150 155 160														
	Pro Gln Val Asp Val Trp Glu Leu Leu Lys Asn Ala Lys Pro Ser Glu														
		165 170 175													
	Tyr Glu Lys Ile Ala Xaa Gln Tyr Gly Ile Thr Asp Leu Arg Xaa Met														
		180 185 190													
50	Leu Lys Arg Leu Lys Arg Met Pro Gln Arg Xaa Glu Lys Arg Pro His														
		195 200 205													
	Phe Cys Gln Lys Ile Leu Gly Ser Cys Leu Ser Gly														

20 25 30
 Ala Thr Leu Asn Cys Ser Val Arg Gly Asn Pro Lys Pro Lys Ile Thr
 35 40 45
 5 Trp Met Lys Asn Lys Val Ala Ile Val Asp Asp Pro Arg Tyr Arg Met
 50 55 60
 Phe Ser Asn Gln Gly Val Cys Thr Leu Glu Ile Arg Lys Pro Ser Pro
 65 70 75 80
 Tyr Asp Gly Gly Thr Tyr Cys Cys Lys Ala Val Asn Asp Leu Gly Thr
 85 90 95
 10 Val Glu Ile Glu Cys Lys Leu Glu Val Lys Gly Gly Leu Ser Xaa Cys
 100 105 110
 Arg Leu Leu Leu Gln Xaa Val Pro Pro Asn Ile Ile Asp Ser Tyr Xaa
 115 120 125
 Arg Asp Leu His Ser Ser Asn Pro Glu Glu Tyr
 15 130 135

<210> 1257

<211> 210

<212> PRT

20 <213> Homo sapiens

<400> 1257

Cys Leu Ser Leu Pro Ser Ser Trp Asp His Arg Gln Leu Tyr Leu Ser
 1 5 10 15
 25 Met Asn Ile Asp Asp Lys Leu Glu Gly Leu Phe Leu Lys Cys Gly Gly
 20 25 30
 Ile Asp Glu Met Gln Ser Ser Arg Thr Met Val Val Met Gly Gly Val
 35 40 45
 Ser Gly Gln Ser Thr Val Ser Gly Glu Leu Gln Asp Ser Val Leu Gln
 50 55 60
 30 Asp Arg Ser Met Pro His Gln Glu Ile Leu Ala Ala Asp Glu Val Leu
 65 70 75 80
 Gln Glu Ser Glu Met Arg Gln Gln Asp Met Ile Ser His Asp Glu Leu
 85 90 95
 35 Met Val His Glu Glu Thr Val Lys Asn Asp Glu Glu Gln Met Glu Thr
 100 105 110
 His Glu Arg Leu Pro Gln Gly Leu Gln Tyr Ala Leu Asn Val Pro Ile
 115 120 125
 Ser Val Lys Gln Glu Ile Thr Phe Thr Asp Val Ser Glu Gln Leu Met
 130 135 140
 40 Arg Asp Lys Lys Gln Ile Arg Glu Pro Val Asp Leu Gln Lys Lys Lys
 145 150 155 160
 Lys Arg Lys Gln Arg Ser Pro Ala Lys Ile Leu Thr Ile Asn Glu Asp
 165 170 175
 45 Gly Ser Leu Gly Leu Lys Thr Pro Lys Ser His Val Cys Glu His Cys
 180 185 190
 Asn Ala Ala Phe Arg Thr Asn Tyr Pro Tyr Arg Asp Met Ser Ser Ser
 195 200 205
 Tyr Arg
 50 210

<210> 1258

<211> 198

<212> PRT

55 <213> Homo sapiens

<400> 1258

Ser Phe Ser Asp Ser Asp Asp Asp Ser Cys Leu Trp Lys Arg Lys Arg
 1 5 10 15
 60 Gln Lys Cys Phe Asn Pro Pro Pro Lys Pro Glu Pro Phe Gln Phe Gly
 20 25 30
 Gln Ser Ser Gln Lys Pro Pro Val Ala Gly Gly Lys Lys Ile Asn Asn
 35 40 45

Ile Trp Gly Ala Val Leu Gln Glu Gln Asn Gln Asp Ala Val Ala Thr
 50 55 60
 Glu Leu Gly Ile Leu Gly Met Glu Gly Thr Ile Asp Arg Ser Arg Gln
 65 70 75 80
 5 Ser Glu Thr Tyr Asn Tyr Leu Leu Ala Lys Lys Leu Arg Lys Glu Ser
 85 90 95
 Gln Glu His Thr Lys Asp Leu Asp Lys Glu Leu Asp Glu Tyr Met His
 100 105 110
 Gly Gly Lys Lys Met Gly Ser Lys Glu Glu Glu Asn Gly Gln Gly His
 115 120 125
 10 Leu Lys Arg Lys Arg Pro Val Lys Asp Arg Leu Gly Asn Arg Pro Glu
 130 135 140
 Met Asn Tyr Lys Gly Arg Tyr Gln Ile Thr Ala Glu Asp Ser Gln Glu
 145 150 155 160
 15 Lys Val Ala Asp Glu Ile Ser Phe Arg Leu Gln Glu Pro Lys Lys Asp
 165 170 175
 Leu Ile Ala Pro Ser Ser Glu Asp Tyr Trp Tyr Lys Lys Ala Ile Glu
 180 185 190
 Leu Leu Met Glu Thr Arg
 195
 20
 <210> 1259
 <211> 103
 <212> PRT
 25 <213> Homo sapiens
 <400> 1259
 Arg Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Tyr Ser Gly Thr Ile
 1 5 10 15
 30 Ser Ala His Cys Asn Leu Cys Leu Pro Gly Ser Gly Asp Ser Pro Ala
 20 25 30
 Ser Ala Ser Arg Val Ala Gly Ile Ile Gly Met Glu Asn His Thr Trp
 35 35 40 45
 Leu Xaa Phe Val Phe Leu Val Xaa Met Lys Phe His His Val Gly Leu
 50 55 60
 35 Ala Gly Leu Lys Leu Leu Thr Ser Ser Asp Leu Pro Ala Leu Val Ser
 65 70 75 80
 Gln Ser Val Gly Ile Thr Gly Val Ser His Arg Ala Trp Pro Met Leu
 85 90 95
 40 Val Phe Ile Leu Lys Ile Ala
 100
 <210> 1260
 <211> 98
 45 <212> PRT
 <213> Homo sapiens
 <400> 1260
 Phe Thr Ala Lys Ile Asn Leu Lys Lys Gln Thr Asn Leu Gln Met Val
 1 5 10 15
 50 Cys Tyr Asp Leu Asp Lys Thr Asp Tyr Gln Leu Val Ile Leu Ile Ile
 20 25 30
 Ser Thr Cys Asn Lys Ile Glu Lys Leu Asn Pro Val Leu Tyr Thr Leu
 35 40 45
 55 Lys Val Phe Leu Xaa Lys Tyr Ile Phe Lys Met Phe Tyr Gln Leu His
 50 55 60
 Phe Phe Pro His Ile Phe Leu Asn Gln Glu Lys Gln Xaa Gly Leu Phe
 65 70 75 80
 Leu Gln Glu Phe Ser Trp Phe Ile Gln Val Ala Lys Thr Leu Ala Ile
 85 90 95
 60 Ser Ser

<210> 1261
 <211> 266
 <212> PRT
 <213> Homo sapiens

5

<400> 1261
 Glu Leu Ala Arg Leu Gln Val Asp Thr Ser Gly Ser Lys Ala Ala Phe
 1 5 10 15
 Glu Pro Ala Ile Asp Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu
 10 20 25 30
 Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu
 35 40 45
 Ser Lys Gln Lys Asp Tyr Glu Ser Ser Trp Asp Ser Glu Ser Leu
 50 55 60
 15 Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His
 65 70 75 80
 Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser Pro Val
 85 90 95
 Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro
 100 105 110
 20 Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro
 115 120 125
 Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser
 130 135 140
 25 Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala
 145 150 155 160
 Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser
 165 170 175
 Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val
 180 185 190
 30 Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly
 195 200 205
 Lys Leu Glu Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys
 210 215 220
 35 Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met
 225 230 235 240
 Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro
 245 250 255
 40 Ala Ile Glu Met Gln Lys Val Cys Ser Lys
 260 265

<210> 1262
 <211> 335
 <212> PRT
 <213> Homo sapiens

45

<400> 1262
 Lys Glu Leu Glu Val Lys Gln Gln Leu Glu Gln Ala Leu Arg Ile Gln
 1 5 10 15
 50 Asp Ile Glu Leu Lys Ser Val Glu Ser Asn Leu Asn Gln Val Ser His
 20 25 30
 Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn Cys Met Leu Lys
 35 40 45
 Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His Gln
 50 55 60
 55 Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys
 65 70 75 80
 Glu Lys Asn Ala Glu Leu Gln Met Thr Leu Lys Leu Lys Glu Glu Ser
 85 90 95
 60 Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Leu Ile
 100 105 110
 Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys
 115 120 125

Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser
 130 135 140
 Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu
 145 150 155 160
 5 Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn
 165 170 175
 Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro
 180 185 190
 10 Leu Phe Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Xaa Asn
 195 200 205
 Tyr Ala Gly Asp Ala Xaa Arg Glu Asn Thr Leu Val Ser Glu His Ala
 210 215 220
 Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His
 225 230 235 240
 15 Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln
 245 250 255
 Glu Ser Xaa Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp
 260 265 270
 20 Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser
 275 280 285
 Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met Gln His His
 290 295 300
 Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu
 305 310 315 320
 25 Lys Asn Arg Ile Tyr Gln Tyr Glu Lys Arg Lys Gln Lys Gln Lys
 325 330 335

<210> 1263

<211> 225

30 <212> PRT

<213> Homo sapiens

<400> 1263

35 Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met
 1 5 10 15
 Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr
 20 25 30
 Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr
 35 40 45
 40 Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln
 50 55 60
 Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys
 65 70 75 80
 45 Ile Asn Gly Lys Leu Glu Gly Ser Pro Val Lys Asp Gly Leu Leu Lys
 85 90 95
 Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu
 100 105 110
 Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ile Cys
 115 120 125
 50 Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu
 130 135 140
 Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser
 145 150 155 160
 Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser
 165 170 175
 55 Leu Cys Glu Thr Val Ser Xaa Arg Met Cys Val Ser Gln Gly Cys Ala
 180 185 190
 Ser Lys Arg Asn Arg Leu Asn Asn Gly Lys Leu Glu Xaa Leu Leu Leu
 195 200 205
 60 Arg Xaa Leu Leu Lys Leu Thr Ala Asp Glu Ser Ser Xaa Pro Leu Lys
 210 215 220
 Pro
 225

<210> 1264
 <211> 153
 <212> PRT
 5 <213> Homo sapiens

<400> 1264
 Arg Gln Ser Leu Thr Leu Ser Leu Arg Leu Glu Cys Ser Ser Gly Ile
 1 5 10 15
 10 Ser Ala His Leu Pro Leu Gly Phe Lys Pro Phe Ser Cys Leu Ser Leu
 20 25 30
 Pro Ser Ser Trp Asp Tyr Arg Gly Val His His His Asp His Leu Ile
 35 40 45
 15 Phe Ser Cys Leu Phe Cys Phe Phe Gly Phe Cys Phe Phe Leu Xaa Trp
 50 55 60
 Ser Leu Ser Leu Ser Pro Arg Leu Glu Cys Ser Ser Gly Ile Ser Ala
 65 70 75 80
 His Leu Pro Pro Gly Phe Lys Pro Phe Ser Cys Leu Ser Leu Pro Ser
 85 90 95
 20 Ser Trp Asp Tyr Arg Gly Val His His Ala His Leu Ile Phe Ser
 100 105 110
 Cys Phe Xaa Phe Leu Val Leu Phe Xaa Thr Xaa Ser Cys Ser Val Ala
 115 120 125
 Gln Ala Gly Val Xaa Trp Arg Asp Leu Ser Ser Leu Gln Ala Pro Pro
 130 135 140
 25 Pro Arg Phe Thr Pro Phe Cys Tyr Glu
 145 150

<210> 1265
 30 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 1265
 35 Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp
 1 5 10 15
 Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu
 20 25 30
 Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu
 35 40 45
 40 Glu Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met
 50 55 60
 Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr
 65 70 75 80
 45 Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile
 85 90 95
 Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu
 100 105 110
 Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys
 115 120 125
 50 Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val
 130 135 140
 Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile
 145 150 155 160
 55 Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser Pro Val Lys Asp Gly Leu
 165 170 175
 Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu
 180 185 190
 Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro
 195 200 205
 60 Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Val Cys Xaa Lys
 210 215 220

<210> 1266
 <211> 91
 <212> PRT
 <213> Homo sapiens

5

<400> 1266

Ser Phe Cys Leu Asp Ser Asp Gly Ser Ile Ser Ser Ala Leu Asn Val
 1 5 10 15
 Cys Ser Phe Phe Asn Ser Lys Ala Leu Phe Gly Thr Asp Phe Cys Ile
 10 20 25 30
 Ser Met Ala Gly Ser Lys Ala Asp Gly Phe Ser Gly Gly Ser Ala Leu
 35 40 45
 Lys Val Cys Met Ser Ile Asn Ser Lys Ala Leu Val Gly Ile Glu Thr
 50 55 60
 15 Phe Ile Pro Gln Leu Ala Phe Arg Arg Pro Ser Leu Thr Gly Asp Pro
 65 70 75 80
 Ser Asn Phe Pro Phe Ile Leu Ser Ile Ser Phe
 85 90

20

<210> 1267
 <211> 171
 <212> PRT
 <213> Homo sapiens

25

<400> 1267

Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys
 1 5 10 15
 Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
 20 25 30
 30 Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys
 35 40 45
 Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp
 50 55 60
 Gly Phe Leu Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys
 35 65 70 75 80
 Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu
 85 90 95
 Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro
 100 105 110
 40 Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln
 115 120 125
 Met Phe Pro Ser Glu Ser Lys Gln Lys Lys Val Glu Glu Asn Ser Trp
 130 135 140
 Asp Ser Glu Ser Leu Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val
 45 145 150 155 160
 Pro Arg Leu His Ile Lys Lys Lys Trp Ile Lys
 165 170

50

<210> 1268
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 1268

Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
 1 5 10 15
 Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys
 20 25 30
 Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser Pro Val Lys Asp
 35 40 45
 60 Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys
 50 55 60
 Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu

[illegible]

Asp Thr Val Phe His Val Gly Leu Phe Val His Val Leu Lys Pro Met
 85 90 95
 Tyr Phe Leu Leu Xaa His Leu Arg His Asn
 100 105

5

<210> 1271
 <211> 168
 <212> PRT
 <213> Homo sapiens

10

<400> 1271
 Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys
 1 5 10 15
 Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
 20 25 30
 Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys
 35 40 45
 Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser Pro Val Lys Asp
 50 55 60
 Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys
 20 65 70 75 80
 Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu
 85 90 95
 Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro
 100 105 110
 Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu
 115 120 125
 Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp
 130 135 140
 Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Xaa Lys Asp Val Cys Phe
 30 145 150 155 160
 Pro Arg Leu Arg Ile Lys Lys Lys
 165

35

<210> 1272
 <211> 91
 <212> PRT
 <213> Homo sapiens

40

<400> 1272
 Ser Phe Cys Leu Asp Ser Asp Gly Ser Ile Ser Ser Ala Leu Asn Val
 1 5 10 15
 Cys Ser Phe Phe Asn Ser Lys Ala Leu Phe Gly Thr Asp Phe Cys Ile
 20 25 30
 Ser Met Ala Gly Ser Lys Ala Asp Gly Phe Ser Gly Gly Ser Ala Leu
 35 40 45
 Lys Val Cys Met Ser Ile Asn Ser Lys Ala Leu Val Gly Ile Glu Thr
 50 55 60
 Phe Ile Pro Gln Leu Ala Phe Arg Arg Pro Ser Leu Thr Gly Asp Pro
 50 65 70 75 80
 Ser Asn Phe Pro Phe Ile Leu Ser Ile Ser Phe
 85 90

55

<210> 1273
 <211> 177
 <212> PRT
 <213> Homo sapiens

60

<400> 1273
 Ser Asn Trp Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His Xaa Ala
 1 5 10 15
 Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser Ser Thr
 20 25 30

Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Xaa Xaa Ala Gln Arg
 35 40 45
 Lys Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp Ala Xaa
 50 55 60
 5 Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg Asp Gln Arg Glu
 65 70 75 80
 Xaa Gln Cys Gln Met Lys Glu Ala Glu Xaa Met Tyr Gln Asn Glu Gln
 85 90 95
 Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Xaa Asp Gln Lys
 10 100 105 110
 Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln Leu Val
 115 120 125
 His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile
 130 135 140
 15 His Phe Leu Glu Arg Lys Met Gln His His Xaa Leu Lys Glu Lys Asn
 145 150 155 160
 Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile Tyr Gln
 165 170 175
 Tyr

20

<210> 1274

<211> 106

<212> PRT

25

<213> Homo sapiens

<400> 1274

Ile Ser Pro His Phe Ser Leu Leu Gly Xaa Asp Val Ala Phe Ser Ser
 1 5 10 15
 30 Gln Glu Asn Glu Tyr Gln Leu Leu Ser Cys Phe Cys Cys Gln Leu Ser
 20 25 30
 Tyr Val His Glu Leu Ile Ala Val Glu Ala Thr Tyr Phe Cys Phe Val
 35 40 45
 Val Glu Ile Ile Ser Asp Leu Xaa Thr Pro Ala Val Gln Cys Val Cys
 50 55 60
 35 Ser His Tyr Leu Val Arg Phe Asp Thr Xaa Val Gln Leu Pro Ser Phe
 65 70 75 80
 Asp Thr Xaa Phe His Val Gly Leu Phe Val His Val Leu Lys Pro Met
 85 90 95
 40 Tyr Phe Leu Leu Xaa His Leu Arg His Asn
 100 105

<210> 1275

<211> 181

<212> PRT

45

<213> Homo sapiens

<400> 1275

Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser
 1 5 10 15
 50 Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu
 20 25 30
 Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn
 35 40 45
 55 Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro
 50 55 60
 Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Leu Asn
 65 70 75 80
 Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His Ala
 85 90 95
 60 Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His
 100 105 110
 Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln

115 120 125
 Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp
 130 135 140
 Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser
 5 145 150 155 160
 Lys Ile Gln Leu Ile Phe Ile Phe Leu Arg Gly Lys Cys Asn Ile Ser
 165 170 175
 Pro Lys Arg Glu Lys
 180
 10
 <210> 1276
 <211> 57
 <212> PRT
 <213> Homo sapiens
 15
 <400> 1276
 Ser Phe Cys Xaa Pro Gln Ala Val Xaa Pro Phe Ser Val Phe Val His
 1 5 10 15
 Leu Ser Xaa Ile His Ser Asp Leu Val Xaa Thr Phe Ser Ile Phe Ile
 20 20 25 30
 Lys Leu Ser Leu Thr Val Leu Thr Leu Ile Ala Leu Met Leu Gln Asp
 35 40 45
 Val Phe Ser Ser Trp Cys Arg Thr Ile
 50 55
 25
 <210> 1277
 <211> 146
 <212> PRT
 <213> Homo sapiens
 30
 <400> 1277
 Phe Phe Glu Ala Gln Lys Xaa Ile Pro Lys Ser Leu Lys Ile Ile Phe
 1 5 10 15
 Asn Tyr Ala Gly Asp Gly Phe Lys Arg Lys Xaa Met Gly Phe Arg Thr
 35 20 25 30
 Cys Thr Lys Ser Gln Arg Glu Thr Gln Cys Gln Met Lys Glu Xaa Glu
 35 40 45
 His Met Phe Gln Asn Glu Gln Asp Asn Val Asn Lys His Ile Glu Gln
 50 55 60
 40 Gln Glu Ser Xaa Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met
 65 70 75 80
 Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala Xaa Asn Lys
 85 90 95
 Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met Gln His
 45 100 105 110
 His Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His
 115 120 125
 Leu Lys Asn Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Thr Glu
 130 135 140
 50 Asn Ser
 145
 <210> 1278
 <211> 184
 <212> PRT
 <213> Homo sapiens
 55
 <400> 1278
 Lys Glu Leu Glu Val Lys Gln Gln Leu Glu Gln Ala Leu Arg Ile Gln
 60 1 5 10 15
 Asp Ile Glu Leu Lys Ser Val Glu Ser Asn Leu Asn Gln Val Ser His
 20 25 30
 Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn Cys Met Leu Lys

35 40 45
 Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His Gln
 50 55 60
 Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys
 5 65 70 75 80
 Glu Lys Asn Ala Glu Leu Gln Met Thr Leu Lys Leu Lys Glu Glu Ser
 85 90 95
 Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Leu Ile
 100 105 110
 10 Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys
 115 120 125
 Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser
 130 135 140
 Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu
 15 145 150 155 160
 Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn
 165 170 175
 Val Asp Val Ser Ser Thr Asp Ile
 180
 20
 <210> 1279
 <211> 220
 <212> PRT
 <213> Homo sapiens
 25
 <400> 1279
 Ala Phe Glu Pro Ala Ile Asp Met Gln Lys Ser Val Pro Asn Lys Ala
 1 5 10 15
 Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro
 30 20 25 30
 Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu
 35 40 45
 Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala
 50 55 60
 35 Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser
 65 70 75 80
 Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser
 85 90 95
 Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala
 100 105 110
 40 Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln
 115 120 125
 Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu
 130 135 140
 45 Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu
 145 150 155 160
 Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Arg Arg
 165 170 175
 Met Cys Val Tyr Pro Xaa Leu Ala Xaa Gln Lys Glu Ile Asp Lys Ile
 180 185 190
 50 Asn Gly Lys Leu Glu Xaa Arg Tyr Ala Ala Glu Phe Lys Thr Phe Phe
 195 200 205
 Ala Met Ile Arg Ala Ser Val Lys Glu Gly Leu Leu
 210 215 220
 55
 <210> 1280
 <211> 195
 <212> PRT
 <213> Homo sapiens
 60
 <400> 1280
 Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala
 1 5 10 15

His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser Pro
 20 25 30
 Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile
 35 40 45
 5 Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu
 50 55 60
 Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys
 65 70 75 80
 10 Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg
 85 90 95
 Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu
 100 105 110
 Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp
 115 120 125
 15 Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Xaa Ile Xaa
 130 135 140
 Gly Lys Leu Glu Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn
 145 150 155 160
 20 Cys Gly Met Lys Val Ser Ile Ser Thr Lys Ala Leu Arg Ile Asp Gly
 165 170 175
 His Ala Asn Phe Gln Ser Arg Ala Xaa Arg Glu Ala Ile Cys Leu Arg
 180 185 190
 Ala Cys His
 195
 25
 <210> 1281
 <211> 209
 <212> PRT
 <213> Homo sapiens
 30
 <400> 1281
 Asn Leu Asn Gln Val Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu
 1 5 10 15
 35 His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu
 20 25 30
 Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe
 35 40 45
 Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met Thr
 50 55 60
 40 Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser
 65 70 75 80
 Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys
 85 90 95
 Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser
 100 105 110
 45 His His Pro Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val
 115 120 125
 Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala
 130 135 140
 50 Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser Thr Ile Tyr Asn
 145 150 155 160
 Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys
 165 170 175
 Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn
 180 185 190
 55 His Trp Phe Gln Asn Met Xaa Lys Glu Thr Asn Val Lys His Ser Val
 195 200 205
 Lys

60

<210> 1282
 <211> 120
 <212> PRT

<213> Homo sapiens

<400> 1282

5 Ser Tyr Asn Phe Ala Ala Lys Asn Ser Ala Val Val Pro Gln Gly Phe
 1 5 10 15
 Met Ile Lys Ser Lys Leu Leu Gly Val Val Tyr Arg Val Leu Arg Ile
 20 25 30
 Trp Thr Phe Leu Leu Leu His Val Phe Thr Gly Leu Phe Phe Gly Leu
 35 40 45
 10 Glu His Phe Ser Gln Val Leu Gly Leu Leu Pro Gln Phe Leu Ser Leu
 50 55 60
 Ser Pro Phe Cys Pro Thr Pro Trp Leu Gly Leu Ser Leu Pro Leu Thr
 65 70 75 80
 15 Pro Pro Cys Arg Tyr Leu Ser Gln Ser Leu Ser His Arg Ile Ile Cys
 85 90 95
 Phe Phe Thr Cys Leu Phe Leu Pro Leu Asn His Glu Val Phe Glu Gly
 100 105 110
 Arg Val Arg Gly Leu Val Ile Phe
 115 120

<210> 1283

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1283

25 Lys Ile Thr Lys Pro Leu Thr Arg Pro Ser Lys Thr Ser Trp Phe Lys
 1 5 10 15
 Gly Arg Asn Arg Gln Val Lys Lys Gln Ile Ile Leu Cys Asp Arg Asp
 20 25 30
 Cys Asp Lys Tyr Leu Gln Gly Gly Val Ser Gly Arg Leu Asn Pro Ser
 35 40 45
 Gln Gly Val Gly Gln Lys Gly Glu Arg Glu Arg Asn Trp Gly Arg Ser
 50 55 60
 35 Pro Asn Thr Trp Glu Lys Cys Ser Lys Pro Lys Asn Ser Pro Val Asn
 65 70 75 80
 Thr

<210> 1284

<211> 181

<212> PRT

<213> Homo sapiens

<400> 1284

45 Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala
 1 5 10 15
 Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp
 20 25 30
 50 Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Phe
 35 40 45
 Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Xaa Asn Tyr Ala
 50 55 60
 Gly Asp Ala Xaa Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg
 65 70 75 80
 55 Asp Gln Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr
 85 90 95
 Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser
 100 105 110
 60 Xaa Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln
 115 120 125
 Gln Gln Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile
 130 135 140

500

Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu
 65 70 75 80
 Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Arg Tyr Ala Ala Glu Phe
 85 90 95
 5 Arg Thr Phe Ser Ala Met Ile Arg Ser Pro Val Lys Asp Gly Leu Leu
 100 105 110
 Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 115 120 125
 10 Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser
 130 135 140
 Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala
 145 150 155 160
 Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro
 165 170 175
 15 Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu
 180 185 190
 Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala
 195 200 205
 20 Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Ala Ile
 210 215 220
 Arg Asp Gly Ser Thr
 225

25 <210> 1288
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 1288
 30 Cys Val Ser Leu Lys Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala
 1 5 10 15
 Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn
 20 25 30
 35 Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln
 35 40 45
 Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr
 50 55 60
 Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu
 65 70 75 80
 40 Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Arg Tyr Ala Ala Glu Phe
 85 90 95
 Arg Thr Phe Ser Ala Met Ile Arg Ser Pro Val Lys Asp Gly Leu Leu
 100 105 110
 Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 115 120 125
 45 Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser
 130 135 140
 Ala Phe Glu Pro Xaa Ile Gly Lys Pro Lys Val Cys Xaa Gln Ile Lys
 145 150 155 160
 50 Ala Phe Gly Ile Gly Arg Met Asp Gln Xaa Leu Gly Ala Arg
 165 170

55 <210> 1289
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1289
 60 Pro Phe Gly Trp Xaa Ser Glu Gly Xaa Tyr Ser His Arg Ala Pro Xaa
 1 5 10 15
 Gly Trp Ser Ile Leu Pro Ile Pro Lys Ala Phe Ile Trp Xaa Gln Thr
 20 25 30
 Phe Gly Phe Pro Met Xaa Gly Ser Lys Ala Asp Gly Phe Ser Gly Gly

35 40 45
 Ser Ala Leu Lys Val Cys Met Ser Ile Asn Ser Lys Ala Leu Val Gly
 50 55 60
 Ile Glu Thr Phe Ile Pro Gln Leu Ala Phe Arg Arg Pro Ser Leu Thr
 5 65 70 75 80
 Gly Asp Leu Ile Ile Ala Glu Asn Val Leu Asn Ser Ala Ala Tyr Leu
 85 90 95
 Pro Ser Asn Phe Pro Phe Ile Leu Ser Ile Ser Phe
 100 105
 10
 <210> 1290
 <211> 117
 <212> PRT
 <213> Homo sapiens
 15
 <400> 1290
 Ile Gln Gln His Ile Tyr Leu Leu Ile Phe His Leu Phe Tyr Leu Phe
 1 5 10 15
 Leu Phe Asp Ala Gln Pro Trp Val Asn Thr His Pro Ser Val Lys Gln
 20 20 25 30
 Ser His Arg Asp Ser Gln Asn Pro Lys Asn Phe Leu His Ser Pro Phe
 35 40 45
 Val Trp Ile Leu Met Gly Val Ser His Leu Leu Ser Met Phe Val His
 50 55 60
 25 Ser Ser Ile Pro Arg Leu Tyr Leu Glu Gln Thr Phe Ala Phe Gln Trp
 65 70 75 80
 Gln Ala Arg Arg Gln Met Ala Ser Arg Glu Ala Leu Met Lys His Ile
 85 90 95
 Arg Ile Thr Tyr Ile Ile Pro Phe Ile Leu Phe Phe Asn Ile Ala Tyr
 30 100 105 110
 Leu Trp Lys Gly Thr
 115
 <210> 1291
 35 <211> 189
 <212> PRT
 <213> Homo sapiens
 <400> 1291
 40 Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp
 1 5 10 15
 Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu
 20 25 30
 Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu
 45 35 40 45
 Glu Gly Arg Tyr Ala Ala Glu Phe Arg Thr Phe Ser Ala Met Ile Arg
 50 55 60
 Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val
 65 70 75 80
 50 Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys
 85 90 95
 Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met
 100 105 110
 Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr
 55 115 120 125
 Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr
 130 135 140
 Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln
 145 150 155 160
 60 Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys
 165 170 175
 Ile Asn Gly Lys Leu Glu Ala Ile Arg Asp Gly Ser Thr
 180 185

<210> 1292
 <211> 105
 <212> PRT
 5 <213> Homo sapiens

<400> 1292
 Ser Phe Cys Leu Asp Ser Asp Gly Ser Ile Ser Ser Ala Leu Asn Val
 1 5 10 15
 10 Cys Ser Phe Phe Asn Ser Lys Ala Leu Phe Gly Thr Asp Phe Cys Ile
 20 25 30
 Ser Met Ala Gly Ser Lys Ala Asp Gly Phe Ser Gly Gly Ser Ala Leu
 35 40 45
 15 Lys Val Cys Met Ser Ile Asn Ser Lys Ala Leu Val Gly Ile Glu Thr
 50 55 60
 Phe Ile Pro Gln Leu Ala Phe Arg Arg Pro Ser Leu Thr Gly Asp Leu
 65 70 75 80
 Ile Ile Ala Glu Asn Val Leu Asn Ser Ala Tyr Leu Pro Ser Asn
 85 90 95
 20 Phe Pro Phe Ile Leu Ser Ile Ser Phe
 100 105

<210> 1293
 <211> 181
 25 <212> PRT
 <213> Homo sapiens

<400> 1293
 Gln Xaa His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala
 1 5 10 15
 Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp
 20 25 30
 Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser
 35 35 40 45
 Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Xaa Asn Tyr Ala
 50 55 60
 Gly Asp Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg
 65 70 75 80
 40 Asp Gln Arg Glu Xaa Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr
 85 90 95
 Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser
 100 105 110
 Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln
 115 120 125
 45 Gln Gln Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile
 130 135 140
 Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu Leu
 145 150 155 160
 Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn
 50 165 170 175
 Arg Ile Tyr Gln Tyr
 180

<210> 1294
 55 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1294
 60 Ile Ser Pro His Phe Ser Leu Leu Gly Asp Asp Val Ala Phe Ser Ser
 1 5 10 15
 Gln Glu Asn Glu Tyr Gln Leu Leu Ser Cys Phe Cys Cys Gln Leu Ser
 20 25 30

Tyr Val His Glu Leu Ile Ala Val Glu Ala Thr Tyr Phe Cys Phe Val
 35 40 45
 Val Glu Ile Ile Ser Asp Leu Glu Thr Pro Ala Val Gln Cys Val Cys
 50 55 60
 5 Ser His Tyr Leu Val Arg Phe Asp Thr Cys Val Gln Leu Pro Ser Phe
 65 70 75 80
 Asp Thr Xaa Phe His Val Gly Leu Phe Val His Val Leu Lys Pro Met
 85 90 95
 Tyr Phe Leu Leu Glu His Leu Arg His Asn
 10 100 105

<210> 1295

<211> 185

<212> PRT

15 <213> Homo sapiens

<400> 1295

Tyr Gly Arg Phe Leu Leu Leu Ile Val Gly Tyr Phe Cys Phe Ser Tyr
 1 5 10 15
 20 Cys His Leu Lys Tyr Ile Phe Asn Val Glu Ile Leu Thr Ala Cys Leu
 20 25 30
 Met Lys Ser Ser Phe Gln Ile Phe Leu Gly Ser Pro Val Lys Asp Gly
 35 40 45
 25 Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala
 50 55 60
 Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys
 65 70 75 80
 Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn
 85 90 95
 30 Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile
 100 105 110
 Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp
 115 120 125
 Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro
 130 135 140
 35 Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu
 145 150 155 160
 Gly Arg Tyr Ala Ala Glu Phe Arg Thr Phe Ser Ala Met Ile Arg Xaa
 165 170 175
 40 Pro Val Lys Arg Trp Ser Ser Glu Gly
 180 185

<210> 1296

<211> 130

<212> PRT

45 <213> Homo sapiens

<400> 1296

Xaa Ile Ile Phe Ile Phe Met Ser Xaa Arg Asn Leu Thr Leu Xaa Ser
 1 5 10 15
 50 Ser Cys Ser His Leu Thr Phe Trp Phe Ser Asn Trp Asp Phe Ile Ser
 20 25 30
 Phe Ala Ser Asp Ser Phe Phe Phe Ser Thr Gln Asn Phe Phe Phe Ile
 35 40 45
 55 Cys Ser Ile Phe Pro Xaa Val Val His Xaa Asp Leu Phe Glu Val Pro
 50 55 60
 Leu Leu Phe His Lys Asn Glu Xaa Tyr Pro Lys Phe Leu Ile Gly Xaa
 65 70 75 80
 Leu Asn Leu Xaa Ile Phe His Leu Phe Tyr Pro Phe Leu Phe Asp Xaa
 85 90 95
 60 Asn Leu Gly Xaa Thr Xaa His Pro Ser Xaa Glu Gln Val Xaa Thr Glu
 100 105 110
 Asp Leu Ser Xaa Asn Pro Lys Asn Phe Leu Gln Pro Phe Phe Cys Phe

```

115                               120                               125
Asp Ser
130

5      <210> 1297
      <211> 103
      <212> PRT
      <213> Homo sapiens

10     <400> 1297
Met Gly Thr Arg Ala Xaa Gln Cys Glu Val Ser Xaa Thr His Glu Asn
 1      5      10      15
Glu Asn Tyr Xaa Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala
      20      25      30
15    Met Leu Lys Leu Glu Ile Ala Xaa Leu Lys Xaa Gln Tyr Gln Glu Lys
      35      40      45
Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala
      50      55      60
Glu Leu Gln Met Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg
20    65      70      75      80
Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Xaa Ile Ala Glu Asn Xaa
      85      90      95
Met Leu Thr Xaa Lys Leu Lys
      100

25     <210> 1298
      <211> 98
      <212> PRT
      <213> Homo sapiens

30     <400> 1298
Xaa Xaa Xaa Xaa Thr Ile Xaa Xaa Arg Phe Xaa Xaa Phe Xaa Phe Lys
 1      5      10      15
Asn Gln Asn Lys Arg Arg Val Glu Glu Asn Phe Trp Gly Xaa Xaa Lys
35    20      25      30
Gly Pro Arg Xaa Arg Leu Val Xaa Lys Lys Asp Xaa Gly Xaa Pro Gln
      35      40      45
Gly Xaa His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Xaa Glu Asp
      50      55      60
40    Ser Xaa Ser Leu Ser Lys Ile Leu Asp Xaa Val His Ser Cys Glu Arg
      65      70      75      80
Ala Arg Glu Leu Gln Lys Asp Xaa Cys Glu Gln Xaa Gln Glu Lys Trp
      85      90      95
Asn Lys

45     <210> 1299
      <211> 207
      <212> PRT
      <213> Homo sapiens

50     <400> 1299
Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro
 1      5      10      15
55    Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu
      20      25      30
Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp
      35      40      45
Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu
60    50      55      60
Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu
      65      70      75      80
Glu Gly Arg Tyr Ala Ala Glu Phe Gly Thr Phe Ser Ala Met Ile Arg

```

512

85 90 95
 Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val
 100 105 110
 5 Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys
 115 120 125
 Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met
 130 135 140
 Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr
 145 150 155 160
 10 Leu Arg Ala Asp Glu Ile Ser His Gln Asn Pro Asn Lys Arg Thr Met
 165 170 175
 Lys Lys Val Leu Gly Ile Leu Arg Val Ser Val Arg Leu Phe His Arg
 180 185 190
 Lys Asp Val Cys Leu Pro Gln Xaa Ala Xaa Gln Lys Glu Ile Asp
 15 195 200 205

<210> 1300

<211> 187

<212> PRT

20 <213> Homo sapiens

<400> 1300

Thr Gly Phe Cys Trp Xaa Lys Ala His Asp Gln Ile Val Thr Ser Arg
 1 5 10 15
 25 Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln
 20 25 30
 Arg Lys Met Asn Val Asp Val Ser Ser Pro Ile Tyr Asn Asn Glu Val
 35 40 45
 Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys
 50 55 60
 Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val
 65 70 75 80
 Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys
 85 90 95
 35 Glu Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His
 100 105 110
 Thr Glu Gln Gln Glu Ser Xaa Asp Gln Lys Leu Phe Gln Leu Gln Ser
 115 120 125
 Lys Asn Met Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala
 40 130 135 140
 Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys
 145 150 155 160
 Met Gln His His Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr
 165 170 175
 45 Asn Asn His Leu Lys Asn Arg Ile Tyr Gln Tyr
 180 185

<210> 1301

<211> 164

50 <212> PRT

<213> Homo sapiens

<400> 1301

Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu
 1 5 10 15
 Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu Ser
 20 25 30
 Lys Gln Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Arg
 35 40 45
 60 Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His Gln
 50 55 60
 Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser Leu
 65 70 75 80

Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu Leu
 85 90 95
 Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met Lys
 100 105 110
 5 Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu Ile
 115 120 125
 Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu Cys
 130 135 140
 10 Ser Val Arg Val Leu Thr Leu Met Lys Met Lys Ile Ile Ser Tyr Met
 145 150 155 160
 Lys Ile Ala Cys

15 <210> 1302
 <211> 196
 <212> PRT
 <213> Homo sapiens

20 <400> 1302
 Asp Leu Lys Thr Val Lys Glu Lys Asp Asp Ile Leu Phe Glu Asp Leu
 1 5 10 15
 Gln Asp Asn Xaa Asn Glu Asn Gly Glu Gly Glu Ile Glu Asp Glu Glu
 20 25 30
 25 Glu Glu Gly Tyr Asp Asp Asp Asp Asp Asp Trp Asp Trp Asp Glu Gly
 35 40 45
 Val Gly Lys Leu Ala Lys Gly Tyr Val Trp Asn Gly Gly Ser Asn Pro
 50 55 60
 Gln Ala Asn Arg Gln Thr Ser Asp Ser Ser Ser Ala Lys Met Ser Thr
 65 70 75 80
 30 Pro Ala Asp Lys Val Leu Arg Lys Phe Glu Asn Lys Ile Asn Leu Asp
 85 90 95
 Lys Leu Asn Val Thr Asp Ser Val Ile Asn Lys Val Thr Glu Lys Ser
 100 105 110
 Arg Gln Lys Glu Ala Asp Met Tyr Arg Ile Lys Asp Lys Ala Asp Arg
 115 120 125
 35 Ala Thr Val Glu Gln Val Leu Asp Pro Arg Thr Arg Met Ile Leu Phe
 130 135 140
 Lys Met Leu Thr Arg Gly Ile Ile Thr Glu Ile Asn Gly Cys Ile Ser
 145 150 155 160
 40 Thr Gly Lys Glu Ala Asn Val Ser Met Leu Ala Gln Gln Met Glu Arg
 165 170 175
 Ala Glu Gln Ser Lys Phe Ile Lys Leu Leu Phe Trp Cys Ser Lys Ile
 180 185 190
 Gly Ile Asn Met
 45 195

50 <210> 1303
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 1303
 Phe Phe Ser Pro Asn Glu Asn Phe Met Ala Lys Glu His Asp Phe Leu
 1 5 10 15
 55 Ser Ile Ile Gly Phe Trp Asn Asn Gly Ile Phe Cys Leu Trp Leu Ser
 20 25 30
 Leu Ile Lys Ser Phe Ile Phe Phe Phe Gly Pro Ser Phe Pro His Phe
 35 40 45
 60 Leu Arg Val Ser Phe Thr Ile Ala Met Thr Lys Ser Glu Phe Ser Thr
 50 55 60
 Tyr Ile Phe Ile Pro Ile Phe Glu His Gln Asn Arg Ser Phe Ile Asn
 65 70 75 80
 Phe Asp Cys Ser Ala Leu Ser Ile Cys Cys Ala Ser Met Asp Thr Leu

85 90 95
 Ala Ser Phe Pro Val Leu Met Gln Pro Phe Ile Ser Val Met Ile Pro
 100 105 110
 5 Leu Val Asn Ile Leu Asn Lys Ile Ile Leu Val Leu Gly Ser Asn Thr
 115 120 125
 Cys Ser Thr Val Ala Leu Ser Ala Leu Ser Leu Met Arg Tyr Ile Ser
 130 135 140
 Ala Ser Phe Cys Leu Asp Phe Ser Val Thr Leu Phe Met Thr Glu Ser
 145 150 155 160
 10 Val Thr Phe Ser Leu Ser Lys Leu Ile Leu Phe Ser Asn Phe Arg Lys
 165 170 175
 Thr Leu Ser Ala Gly Val Asp Ile Leu Ala Glu Leu Leu Ser Glu Val
 180 185 190
 15 Cys Arg Phe Ala Cys Gly Leu Leu Pro Pro Phe Gln Thr
 195 200 205

<210> 1304

<211> 164

<212> PRT

20 <213> Homo sapiens

<400> 1304

Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu
 1 5 10 15
 25 Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu Ser
 20 25 30
 Lys Gln Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Arg
 35 40 45
 30 Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His Gln
 50 55 60
 Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser Leu
 65 70 75 80
 Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu Leu
 85 90 95
 35 Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met Lys
 100 105 110
 Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu Ile
 115 120 125
 Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu Cys
 130 135 140
 40 Ser Val Arg Val Leu Thr Leu Met Lys Met Lys Ile Ile Ser Tyr Met
 145 150 155 160
 Lys Ile Ala Cys

45 <210> 1305
 <211> 133

<212> PRT

50 <213> Homo sapiens

<400> 1305

Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His Gln
 1 5 10 15
 55 Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser Leu
 20 25 30
 Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu Leu
 35 40 45
 Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met Lys
 50 55 60
 60 Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu Ile
 65 70 75 80
 Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu Cys
 85 90 95

Ser Val Arg Leu Thr Leu Asn Pro Glu Glu Glu Lys Arg Arg Asn Ala
 100 105 110
 Asp Ile Leu Asn Glu Lys Ile Arg Glu Glu Leu Gly Arg Ile Glu Glu
 115 120 125
 5 His Ile Gly Lys Ser
 130
 <210> 1306
 <211> 83
 10 <212> PRT
 <213> Homo sapiens
 <400> 1306
 Gln Arg Phe Ile Ser Leu Phe Xaa Asp Gly Xaa Ser Xaa Xaa Xaa Ile
 1 5 10 15
 Ser Ser Leu Ser Xaa Gln Phe Pro Phe Ser Thr Cys Asn Phe Xaa Glu
 20 25 30
 Glu Ile Ile Phe Ile Phe Met Ser Val Arg Thr Leu Ile Gln Xaa Thr
 35 40 45
 20 Phe Tyr Thr Leu Gln Xaa Tyr Ile Leu Tyr Ser Glu Ser Leu Phe Lys
 50 55 60
 Cys Cys Phe Thr Ser Asn Ser Phe Leu Cys Ala Leu Arg Phe Phe Leu
 65 70 75 80
 Ile Leu Pro
 25
 <210> 1307
 <211> 231
 <212> PRT
 30 <213> Homo sapiens
 <400> 1307
 Leu Lys Arg Gly Ile Ser Asn Lys Val Gly Gln Leu Lys Val Xaa Xaa
 1 5 10 15
 35 Ser Leu Arg Thr Gln Cys Ser Leu Phe Lys Leu Lys Glu Xaa Gln Ala
 20 25 30
 Xaa Glu Ile Xaa Glu Ala Glu Ile Glu Ser His His Pro Arg Leu Ala
 35 40 45
 Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln
 50 55 60
 40 Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met
 65 70 75 80
 Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln
 85 90 95
 45 Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Leu
 100 105 110
 Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His
 115 120 125
 Ala Gln Arg Asp Gln Arg Glu Xaa Gln Cys Gln Met Lys Glu Ala Glu
 130 135 140
 50 His Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln
 145 150 155 160
 Gln Glu Ser Xaa Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met
 165 170 175
 55 Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala Asp Asn Lys
 180 185 190
 Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met Gln His
 195 200 205
 60 His Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His
 210 215 220
 Leu Lys Xaa Arg Ile Tyr Gln
 225 230

<210> 1308
 <211> 183
 <212> PRT
 <213> Homo sapiens

5

<400> 1308

Asp Leu Lys Thr Val Lys Glu Lys Asp Asp Ile Leu Phe Glu Asp Leu
 1 5 10 15
 Gln Asp Asn Xaa Asn Glu Asn Gly Glu Gly Glu Ile Glu Asp Glu Glu
 10 20 25 30
 Glu Glu Gly Tyr Asp Asp Asp Asp Asp Trp Asp Trp Asp Glu Gly
 35 40 45
 Val Gly Lys Leu Ala Lys Gly Tyr Val Trp Asn Gly Gly Ser Asn Pro
 50 55 60
 Gln Ala Asn Arg Gln Thr Ser Asp Ser Ser Ser Ala Lys Met Ser Thr
 15 65 70 75 80
 Pro Ala Asp Lys Val Leu Arg Lys Phe Glu Asn Lys Ile Asn Leu Asp
 85 90 95
 Lys Leu Asn Val Thr Asp Ser Val Ile Asn Lys Val Thr Glu Lys Ser
 100 105 110
 Arg Gln Lys Glu Ala Asp Met Tyr Arg Ile Lys Asp Lys Ala Asp Arg
 115 120 125
 Ala Thr Val Glu Gln Val Leu Asp Pro Arg Thr Arg Met Ile Leu Phe
 130 135 140
 Lys Met Leu Thr Arg Gly Ile Ile Thr Glu Ile Asn Gly Cys Ile Ser
 145 150 155 160
 Thr Gly Lys Glu Ala Asn Val Ser Met Leu Xaa Thr Ala Asn Gly Glu
 165 170 175
 Ser Arg Ala Ile Lys Ile Tyr
 180

<210> 1309

<211> 219

<212> PRT

35

<213> Homo sapiens

<400> 1309

Glu Glu Cys Ile Arg Met Pro Asp Phe Val His Ala Asp Leu Ser Glu
 1 5 10 15
 Phe Asn Met Leu Tyr His Gly Gly Gly Val Tyr Ile Ile Asp Val Ser
 20 25 30
 Gln Ser Val Glu His Asp His Pro His Ala Leu Glu Phe Leu Arg Lys
 35 40 45
 Asp Cys Ala Asn Val Asn Asp Phe Phe Met Arg His Ser Val Ala Val
 45 50 55 60
 Met Thr Val Arg Glu Leu Phe Glu Phe Val Thr Asp Pro Ser Ile Thr
 65 70 75 80
 His Glu Asn Met Asp Ala Tyr Leu Ser Lys Ala Met Glu Ile Ala Ser
 85 90 95
 Gln Arg Thr Lys Glu Glu Arg Ser Ser Gln Asp His Val Asp Glu Glu
 100 105 110
 Val Phe Lys Arg Ala Tyr Ile Pro Arg Thr Leu Asn Glu Val Lys Asn
 115 120 125
 Tyr Glu Arg Asp Met Asp Ile Ile Met Lys Leu Lys Glu Glu Asp Met
 130 135 140
 Ala Met Asn Ala Gln Gln Asp Asn Ile Leu Tyr Gln Thr Val Thr Gly
 145 150 155 160
 Leu Lys Lys Asp Leu Ser Gly Val Gln Lys Val Pro Ala Leu Leu Glu
 165 170 175
 Asn Gln Val Glu Glu Arg Thr Cys Ser Asp Ser Glu Asp Ile Gly Ser
 180 185 190
 Ser Glu Cys Ser Asp Thr Asp Ser Glu Glu Gln Gly Asp His Ala Arg
 195 200 205

Pro Lys Lys His Thr Thr Asp Pro Asp Ile Asp
210 215

5 <210> 1310
<211> 191
<212> PRT
<213> Homo sapiens

10 <400> 1310
Glu Pro Asp Gln Lys Pro Glu Pro Val Asp Lys Val Ala Ala Met Arg
1 5 10 15
Glu Phe Arg Val Leu His Thr Ala Leu His Ser Ser Ser Ser Tyr Arg
20 25 30
Glu Ala Val Phe Lys Met Leu Ser Asn Lys Glu Ser Leu Asp Gln Ile
15 35 40 45
Ile Val Ala Thr Pro Gly Leu Ser Ser Asp Pro Ile Ala Leu Gly Val
50 55 60
Leu Gln Asp Lys Asp Leu Phe Ser Val Phe Ala Asp Pro Asn Met Leu
65 70 75 80
20 Asp Thr Leu Val Pro Ala His Pro Ala Leu Val Asn Ala Ile Val Leu
85 90 95
Val Leu His Ser Val Ala Gly Ser Ala Pro Met Pro Gly Thr Asp Ser
100 105 110
Ser Ser Arg Ser Met Pro Ser Ser Tyr Arg Asp Met Pro Gly Gly
115 120 125
25 Phe Leu Phe Glu Gly Leu Ser Xaa Asp Glu Asp Asp Phe His Pro Asn
130 135 140
Thr Arg Ser Thr Pro Ser Ser Ser Thr Pro Ser Ser Arg Gln Pro Pro
145 150 155 160
30 Gly Val Gln Val Glu Leu Leu Gly Pro Gly Pro Ser Pro Lys Val Ser
165 170 175
Trp Pro Pro Pro Trp Pro Trp Pro Ala Xaa Arg Arg Ala Ser Phe
180 185 190

35 <210> 1311
<211> 164
<212> PRT
<213> Homo sapiens

40 <400> 1311
Tyr Arg Asp Met Pro Gly Ala Ser Cys Leu Lys Gly Ser Gln Met Met
1 5 10 15
Arg Met Thr Phe Thr Gln Thr Pro Gly Pro His Pro Xaa Ser Ser Thr
20 25 30
45 Pro Ser Ser Arg Pro Ala Ser Leu Gly Tyr Ser Gly Ala Xaa Gly Pro
35 40 45
Arg Pro Ile Thr Gln Ser Glu Leu Ala Thr Ala Leu Ala Leu Ala Ser
50 55 60
Thr Pro Glu Ser Ser Ser His Thr Pro Thr Pro Gly Thr Gln Gly His
65 70 75 80
Ser Ser Gly Thr Ser Pro Met Ser Xaa Gly Val Gln Ser Gly Thr Pro
85 90 95
Ile Thr Asn Asp Leu Phe Ser Gln Ala Leu Gln His Ala Leu Gln Ala
100 105 110
55 Xaa Gly Gln Pro Ser Leu Gln Ser Gln Trp Gln Pro Gln Leu Gln Gln
115 120 125
Leu Arg Asp Met Gly Ile Gln Asp Asp Glu Leu Ser Leu Arg Ala Leu
130 135 140
60 Gln Ala Thr Gly Gly Asp Ile Gln Ala Ala Leu Glu Leu Ile Phe Ala
145 150 155 160
Gly Gly Ala Pro

<210> 1312
 <211> 120
 <212> PRT
 <213> Homo sapiens

5

<400> 1312
 Leu Ser Pro Lys His Gln Val His Thr Xaa Leu Ala Val Leu Pro Ala
 1 5 10 15
 Pro Ala Gln Pro Pro Trp Gly Thr Val Glu Leu Xaa Gly Pro Gly Pro
 10 20 25 30
 Ser Pro Arg Val Ser Trp Pro Pro Trp Pro Trp Pro Ala Leu Arg
 35 40 45
 Arg Ala Ala Leu Thr His Arg Leu Leu Ala Pro Arg Val Ile Pro Gln
 50 55 60
 Gly Pro His Gln Cys Pro Xaa Val Ser Ser Gln Gly Arg Pro Ser Pro
 15 65 70 75 80
 Met Ile Ser Ser Ala Lys Pro Tyr Ser Met Pro Phe Arg Pro Xaa Gly
 85 90 95
 Ser Pro Ala Phe Arg Ala Ser Gly Ser Pro Ser Cys Ser Ser Tyr Val
 100 105 110
 20 Thr Trp Ala Ser Arg Thr Met Ser
 115 120

<210> 1313
 <211> 110
 <212> PRT
 <213> Homo sapiens

25

<400> 1313
 Gly Met Thr Leu Gly Ala Arg Ser Arg Cys Val Arg Ala Ala Leu Arg
 1 5 10 15
 Ser Ala Gly Gln Gly Gln Gly Gly Gln Leu Thr Leu Gly Asp Gly
 20 25 30
 Pro Gly Pro Xaa Ser Ser Thr Val Pro Gln Gly Gly Trp Ala Gly Ala
 35 35 40 45
 Gly Ser Thr Ala Xaa Arg Val Trp Thr Trp Cys Leu Gly Glu Ser His
 50 55 60
 Pro His His Leu Arg Thr Leu Gln Thr Gly Ser Pro Trp His Ile Pro
 65 70 75 80
 40 Val Leu Ala Gly Xaa His Ala Xaa Gly Xaa Gly Ile Asn Pro Arg His
 85 90 95
 Trp Gly Pro Ala Cys Phe Arg Val Xaa Asn Gln Glu Gln Trp
 100 105 110

<210> 1314
 <211> 225
 <212> PRT
 <213> Homo sapiens

45

<400> 1314
 Phe Gln Glu Arg Ala Arg Ile Glu Lys Ala Tyr Ala Gln Gln Leu Ala
 1 5 10 15
 Asp Trp Ala Arg Lys Trp Arg Gly Thr Val Glu Lys Gly Pro Gln Tyr
 20 25 30
 Gly Thr Leu Glu Lys Ala Trp His Ala Phe Phe Thr Ala Ala Glu Arg
 35 40 45
 Leu Ser Ala Leu His Leu Glu Val Arg Glu Lys Pro Gln Gly Gln Asp
 50 55 60
 Ser Glu Arg Val Arg Ala Trp Gln Arg Gly Ala Phe His Arg Pro Val
 65 70 75 80
 60 Leu Gly Gly Phe Arg Glu Ser Arg Ala Ala Glu Asp Gly Phe Arg Lys
 85 90 95
 Ala Gln Lys Pro Trp Leu Lys Arg Leu Lys Glu Val Glu Ala Ser Lys

100 105 110
 Lys Ser Tyr His Ala Ala Arg Lys Asp Glu Lys Thr Ala Gln Thr Arg
 115 120 125
 5 Glu Ser His Ala Lys Ala Asp Ser Ala Val Xaa Gln Glu Gln Leu Arg
 130 135 140
 Lys Leu Gln Glu Arg Val Glu Arg Cys Ala Lys Glu Ala Glu Lys Thr
 145 150 155 160
 Lys Ala Gln Tyr Glu Gln Thr Leu Ala Glu Leu His Arg Tyr Thr Pro
 165 170 175
 10 Arg Tyr Met Glu Asp Met Glu Gln Ala Phe Glu Thr Leu Gln Ala Arg
 180 185 190
 Arg Ala Pro Xaa Ala Ser Phe Leu Xaa Gly Tyr Ala Xaa His Leu Thr
 195 200 205
 15 Pro Thr Pro Gly Pro Phe Ser Ala Val Arg Ser Xaa Met Lys Leu His
 210 215 220
 Pro
 225

20 <210> 1315
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 1315
 25 Lys Arg Ser Arg Cys Trp Cys Lys Val Xaa Ser Ile Ser Xaa Lys Lys
 1 5 10 15
 Arg Ser Xaa Trp Arg Ser Ala Gly Leu Gln Gly Leu Lys Gly Leu Phe
 20 25 30
 30 His Val Leu His Val Ala Trp Ser Val Ala Met Gln Leu Cys Gln Arg
 35 40 45
 Leu Leu Ile Leu Ser Phe Cys Leu Leu Gly Leu Leu Gly Thr Ala Phe
 50 55 60
 His Pro Phe Leu Gln Phe Ala Gln Leu Leu Leu Xaa Asp Gly Ala Val
 65 70 75 80
 35 Cys Leu Cys Val Ala Leu Pro Arg Leu Gly Gly Leu Leu Ile Leu Pro
 85 90 95
 Gly Cys Val Val Ala Phe Leu Gly Ser Leu Asn Leu Leu Gln Pro Leu
 100 105 110
 Gln Pro Gly Leu Leu Gly Leu Ala Glu Ala Val Leu Gly Arg Pro Ala
 115 120 125
 40 Leu Ala Glu Ala Ala Gln His Arg Pro Val Glu Ser Pro Pro Leu Pro
 130 135 140
 Gly Ala His Pro Leu Thr Val Leu Pro Leu Arg Leu Leu Pro His Leu
 145 150 155 160
 45 Gln Val Gln Arg Ala Gln Pro Leu Ser Arg Arg Glu Lys Gly Met Pro
 165 170 175
 Gly Leu Leu Gln Cys Ala Ile Leu Gly Ala Leu Leu His Gly Pro Pro
 180 185 190
 Pro Leu Ser Gly Pro Val Ser Gln Leu Leu Gly Ile Ser Leu Leu Asp
 195 200 205
 50 Ala Gly Ala Leu Leu Glu
 210

55 <210> 1316
 <211> 163
 <212> PRT
 <213> Homo sapiens

<400> 1316
 60 Gly Xaa Gln His Ile Leu Xaa Glu Lys Lys Pro Xaa Ala Leu Gly Gly
 1 5 10 15
 Pro Ala Arg Ser Gln Arg Leu Val Pro Cys Pro Pro Cys Ser Val Glu
 20 25 30

Cys Ser Asp Ala Ala Leu Pro Ala Ser Ala His Thr Glu Leu Leu Ser
 35 40 45
 Ser Arg Pro Pro Trp His Ser Val Pro Pro Val Pro Ala Val Cys Ala
 50 55 60
 5 Ala Ala Pro Xaa Arg Arg Arg Cys Leu Pro Leu Arg Gly Ser Pro Ser
 65 70 75 80
 Ser Gly Arg Ser Ser His Pro Ser Gly Leu Arg Gly Ser Phe Ser Trp
 85 90 95
 10 Lys Pro Gln Pro Pro Ser Ala Ser Ser Ala Arg Ala Ser Gly Pro Cys
 100 105 110
 Gly Ser Arg Pro Arg Pro Pro Gly Ser Arg Gly Ser Arg Pro Ala Gln
 115 120 125
 Ala Gly Gly Lys Pro Pro Ala Ala Arg Arg Ala Pro Ala His Cys Pro
 130 135 140
 15 Ala Leu Ala Ala Ser Pro Ala Pro Pro Gly Ala Ala Arg Ser Ala Ala
 145 150 155 160
 Gln Pro Pro

20 <210> 1317
 <211> 162
 <212> PRT
 <213> Homo sapiens

25 <400> 1317
 Thr Arg Pro Phe Pro Thr Ser Pro Phe Pro Arg Gln Arg Pro Leu Pro
 1 5 10 15
 Ser Leu Gly Pro Arg Thr Ser Ser Leu Lys Gly Gln Arg Ser Ser Gln
 20 25 30
 30 Arg Ala Thr Val Gln Gly Pro Glu Gly Pro Ala Leu Gln Glu Lys Leu
 35 40 45
 Gly Ser Glu Pro Gly Trp Val Asn Val Ala Glu Gly Leu Ser Gly His
 50 55 60
 Ser Gly Ala His Thr Leu His Val Val Gly Arg Val Gln Ala Asn Ala
 65 70 75 80
 Ala Thr Leu Gln Leu Ala Leu Ala Pro Ala Leu Leu Val Leu Leu Thr
 85 90 95
 His Leu Gln Gln Leu Leu Pro Cys Ser Glu Ala Gln Leu Ile Ser Phe
 100 105 110
 40 Leu Ala Ser Val Val Ile Glu Cys Pro Xaa Arg Thr Pro Val Gly Ala
 115 120 125
 Phe Xaa Gly Leu Ser Ser Ser Asp His Ser Ser Ser Cys Pro Val Pro
 130 135 140
 Gly Asp Pro Gly Thr Gly Val Gly Gly Xaa Gly Ile Xaa Val Gly Gln
 145 150 155 160
 Xaa Leu

50 <210> 1318
 <211> 126
 <212> PRT
 <213> Homo sapiens

 <400> 1318
 55 Val Phe Leu Phe Leu Cys Val Gly Val Cys Gln Val Leu Ile His Ala
 1 5 10 15
 Arg Thr Ser His Lys Arg Val Leu Leu Gly Gln Asn Tyr Thr His Pro
 20 25 30
 Lys Pro Thr Pro Gly Thr Pro Lys Gln Arg Ser Gly Thr Glu Ser Thr
 35 40 45
 60 Ala Pro Gly Glu Ala Gln Ala Pro Leu Asn Ala Ser Val Thr Ser Asp
 50 55 60
 Leu Pro Ser Cys Pro Gln Pro Arg Leu Val Pro Ser Leu Pro Val Pro

	65	70	75	80
	Ser Leu Asp Lys Gly Pro Ser Pro Pro Trp Val Pro Gly Leu Pro Pro			
	85	90	95	
5	Ser Arg Asp Arg Gly Ala Ala Arg Glu Arg Arg Phe Arg Ala Leu Arg			
	100	105	110	
	Val Arg Leu Ser Arg Arg Ser Trp Ala Leu Asn Gln Gly Gly			
	115	120	125	
10	<210> 1319			
	<211> 215			
	<212> PRT			
	<213> Homo sapiens			
	<400> 1319			
15	Ala Pro Pro Asp Phe Leu Arg Ala Thr Gly Asp Arg Ala Glu Pro Ser			
	1 5 10 15			
	Val Tyr Trp Ala Ala Val Thr Leu Arg Phe Gln Met Lys Met Phe Glu			
	20 25 30			
20	Ser Ala Asp Ser Thr Ala Thr Arg Ser Gly Gln Asp Leu Trp Ala Glu			
	35 40 45			
	Ile Cys Ser Cys Leu Pro Asn Pro Glu Gln Glu Asp Gly Ala Asn Asn			
	50 55 60			
	Ala Phe Ser Asp Ser Phe Val Asp Ser Cys Pro Glu Gly Glu Gly Gln			
	65 70 75 80			
25	Arg Glu Val Ala Asp Phe Ala Val Gln Pro Ala Val Lys Pro Trp Ala			
	85 90 95			
	Pro Leu Gln Asp Ser Glu Val Tyr Leu Ala Ser Leu Glu Lys Lys Leu			
	100 105 110			
30	Arg Arg Ile Lys Gly Leu Asn Gln Glu Val Thr Ser Lys Asp Met Leu			
	115 120 125			
	Arg Thr Leu Ala Gln Ala Lys Lys Glu Cys Trp Asp Arg Phe Leu Gln			
	130 135 140			
	Glu Lys Leu Ala Ser Glu Phe Phe Val Asp Gly Leu Asp Ser Asp Glu			
	145 150 155 160			
35	Ser Thr Leu Glu His Phe Lys Arg Trp Leu Gln Pro Asp Lys Val Ala			
	165 170 175			
	Val Ser Thr Glu Glu Val Gln Tyr Leu Ile Pro Pro Glu Ser Gln Val			
	180 185 190			
	Glu Lys Pro Val Ala Arg Gly Arg Thr Thr Xaa Arg Gly Thr Ser Gln			
	195 200 205			
40	Gln Xaa Gln Lys Gln Leu Ile			
	210 215			
45	<210> 1320			
	<211> 185			
	<212> PRT			
	<213> Homo sapiens			
	<400> 1320			
50	Asp Thr Glu Glu Ser Ser Ile Leu Ile Gln Cys Ala Leu Gly Gln Ser			
	1 5 10 15			
	Leu His Pro Arg Gln Ser His Met Pro Ala Pro Gly Lys Ser Leu Gly			
	20 25 30			
55	Ala Cys Ser Cys Phe Leu Cys Gly Val Glu Ile Trp Val Phe Ser Phe			
	35 40 45			
	Ser Gly Phe Leu Pro Ala Ala Val Thr Glu Leu His Ala Ala Arg Ser			
	50 55 60			
	Gly Pro Glu Thr Ala Ala Arg Arg Val Cys Val Cys Val Cys Val Cys			
	65 70 75 80			
60	Val Cys Val Cys Val Cys Val Ile Tyr Cys Ser Ala Ala Ala Gly Leu			
	85 90 95			
	Ser Pro Ala Ala Gly Ser Ser Ser Ala Thr Gly Phe Ser Thr Cys Asp			
	100 105 110			

Ser Gly Gly Ile Arg Tyr Trp Thr Ser Ser Val Leu Thr Xaa Thr Leu
 115 120 125
 Ser Gly Trp Ser His Leu Leu Lys Cys Ser Lys Xaa Leu Ser Ser Glu
 130 135 140
 5 Ser Ser Pro Ser Thr Lys Asn Ser Glu Ala Asn Phe Ser Trp Arg Asn
 145 150 155 160
 Arg Ser Gln His Phe Xaa Leu Ala Trp Ala Lys Val Arg Ser Met Ser
 165 170 175
 Xaa Glu Val Thr Ser Asp Xaa Asn Leu
 10 180 185

<210> 1321

<211> 127

<212> PRT

15 <213> Homo sapiens

<400> 1321

Asn Phe Xaa Val Xaa Pro Ala Val Xaa Pro Trp Val Pro Phe Gln Xaa
 1 5 10 15
 20 Ser Lys Val Ile Xaa Leu Xaa Arg Glu Glu Xaa Lys Lys Asn Gln Arg
 20 25 30
 Phe Xaa Ser Glu Val Thr Xaa Lys Asp Met Leu Arg Thr Leu Ala Gln
 35 40 45
 25 Ala Xaa Lys Lys Cys Trp Asp Arg Phe Leu Gln Glu Lys Leu Ala Ser
 50 55 60
 Glu Phe Phe Val Asp Gly Leu Asp Ser Asp Glu Ser Xaa Leu Glu His
 65 70 75 80
 Phe Lys Arg Trp Leu Gln Pro Asp Lys Val Xaa Val Ser Thr Glu Glu
 85 90 95
 30 Val Gln Tyr Leu Ile Pro Pro Glu Ser Gln Val Glu Lys Pro Val Ala
 100 105 110
 Glu Asp Glu Pro Ala Ala Gly Asp Lys Pro Ala Ala Ala Glu Gln
 115 120 125

35 <210> 1322

<211> 204

<212> PRT

<213> Homo sapiens

40 <400> 1322

Leu Phe Tyr Lys Gly Asn Glu Lys Lys Tyr Thr Met Ser Asp Glu Val
 1 5 10 15
 Phe Ser Thr Thr Leu Ala Tyr Thr Lys Ser Pro Lys Val Thr Lys Arg
 20 25 30
 45 Thr Thr Phe Gln Asp Glu Leu Ile Arg Ala Ile Thr Ala Arg Ser Ala
 35 40 45
 Arg Gln Arg Ser Ser Glu Tyr Ser Asp Asp Phe Asp Ser Asp Glu Ile
 50 55 60
 Val Ser Leu Gly Asp Phe Ser Asp Thr Ser Ala Asp Glu Asn Ser Val
 50 65 70 75 80
 Asn Lys Lys Met Asn Asp Phe His Ile Ser Asp Asp Glu Glu Lys Asn
 85 90 95
 Pro Ser Lys Leu Leu Phe Leu Lys Thr Asn Lys Ser Asn Gly Asn Ile
 100 105 110
 55 Thr Lys Asp Glu Pro Val Cys Ala Ile Lys Asn Glu Glu Met Ala
 115 120 125
 Pro Asp Gly Cys Glu Asp Ile Val Val Lys Ser Phe Ser Glu Ser Gln
 130 135 140
 60 Asn Lys Asp Glu Glu Phe Glu Lys Asp Lys Ile Lys Met Lys Pro Lys
 145 150 155 160
 Pro Arg Ile Leu Ser Ile Lys Ser Thr Ser Ser Glu Asn Asn Ser Leu
 165 170 175
 Asp Thr Asp Asp His Phe Lys Pro Ser Pro Arg Pro Arg Glu Tyr Val

180 185 190
 Glu Lys Glu Lys Ser His Gly Gly Arg Arg Met Asp
 195 200

5 <210> 1323
 <211> 142
 <212> PRT
 <213> Homo sapiens

10 <400> 1323
 Leu Lys Lys Ala Ser Phe Phe Ser Phe His Phe Ser Thr Ala Val Lys
 1 5 10 15
 Leu Ser Phe Phe Ser Ala Thr Val Ser Ser Ser Phe Cys Phe Phe
 20 25 30
 15 Ala Leu Ser Tyr Ser Leu Ser Phe Leu Phe Phe Ser Leu Arg Tyr Ser
 35 40 45
 Ile Phe Phe Ser Phe His Phe Ser Lys Ala Cys Ser Ala Ser Pro Phe
 50 55 60
 Leu Ala Ala Phe Ser Ser Val Phe Leu Leu Phe Phe Ser Ser Ser
 20 65 70 75 80
 Leu Phe Leu Ala Ala Ile Phe Phe Ala Ser Phe Ser Phe Ile Ala Phe
 85 90 95
 Gln Ala Ser Asn Asp Ala Asn Ala Ser Ser Leu Leu Ala Ala Phe Phe
 100 105 110
 25 Cys Ser Phe Trp Ile Leu Lys Phe Ser Leu Ser Ile Leu Phe Ile Leu
 115 120 125
 Xaa Ile Ser Cys Lys Tyr Thr Phe Phe Phe Ser Asn His Ser
 130 135 140

30 <210> 1324
 <211> 193
 <212> PRT
 <213> Homo sapiens

35 <400> 1324
 Val Phe Glu Glu Ile Leu Val Leu Lys Gly Asp Ser Thr Asp Asn Tyr
 1 5 10 15
 Leu Phe Ser Leu Phe Arg Asp Phe Lys Ser Leu Gly Gln Lys Pro Xaa
 20 25 30
 40 Gln Lys Gln Ser Ile Glu Pro Asp Arg Ala Asp Asn Ile Arg Ala Ala
 35 40 45
 Val Tyr Gln Glu Trp Leu Glu Lys Lys Asn Val Tyr Leu His Glu Met
 50 55 60
 Xaa Arg Ile Lys Arg Ile Glu Ser Glu Asn Leu Arg Ile Gln Asn Glu
 45 65 70 75 80
 Gln Lys Lys Ala Ala Lys Arg Glu Glu Ala Leu Ala Ser Phe Glu Ala
 85 90 95
 Trp Lys Ala Met Lys Glu Lys Glu Ala Lys Lys Ile Ala Ala Lys Lys
 100 105 110
 50 Arg Leu Glu Glu Lys Asn Lys Arg Lys Thr Glu Glu Glu Asn Ala Ala
 115 120 125
 Arg Lys Gly Glu Ala Leu Gln Ala Phe Glu Lys Trp Lys Glu Lys Lys
 130 135 140
 Met Glu Tyr Leu Lys Glu Lys Asn Arg Lys Glu Arg Glu Tyr Glu Arg
 55 145 150 155 160
 Ala Lys Lys Gln Lys Glu Glu Glu Thr Val Ala Glu Lys Lys Lys Asp
 165 170 175
 Asn Leu Thr Ala Val Glu Lys Trp Asn Glu Lys Lys Glu Ala Phe Phe
 180 185 190

60 Lys

<210> 1325

<211> 214
 <212> PRT
 <213> Homo sapiens

5 <400> 1325
 Lys Met Asn Leu Pro Thr Pro Phe Xaa Pro Ile Thr Ala Arg Pro Pro
 1 5 10 15
 Met Tyr Glu Asp Tyr Met Pro Leu His Ala Pro Leu Pro Pro Thr Ser
 20 25 30
 10 Pro Gln Pro Pro Glu Glu Pro Pro Leu Pro Asp Glu Asp Glu Glu Leu
 35 40 45
 Ser Ser Glu Glu Ser Glu Tyr Glu Ser Thr Asp Asp Glu Asp Arg Gln
 50 55 60
 Arg Met Asn Lys Leu Met Glu Leu Ala Asn Leu Gln Pro Lys Arg Pro
 15 65 70 75 80
 Lys Thr Ile Lys Gln Arg His Val Arg Lys Lys Arg Lys Ile Lys Asp
 85 90 95
 Met Leu Asn Thr Pro Leu Cys Pro Ser His Ser Leu His Pro Val Leu
 100 105 110
 20 Leu Pro Ser Asp Val Phe Asp Gln Pro Gln Pro Val Gly Asn Lys Arg
 115 120 125
 Ile Glu Phe His Ile Ser Thr Asp Met Pro Ala Ala Phe Lys Lys Asp
 130 135 140
 Leu Glu Lys Glu Gln Asn Cys Glu Glu Lys Asn His Asp Leu Pro Ala
 25 145 150 155 160
 Thr Glu Val Asp Ala Ser Asn Ile Gly Phe Gly Lys Ile Phe Pro Lys
 165 170 175
 Pro Asn Leu Asp Ile Thr Glu Glu Ile Lys Glu Asp Ser Asp Glu Met
 180 185 190
 30 Pro Ser Glu Cys Ile Ser Arg Xaa Glu Leu Gly Lys Gly Arg Ile Ser
 195 200 205
 Arg Lys Arg Asn Gly Asn
 210

35 <210> 1326
 <211> 140
 <212> PRT
 <213> Homo sapiens

40 <400> 1326
 Arg Ser Phe Xaa Met Lys Gly Xaa Gln Asn Val Phe Xaa Lys Xaa Asn
 1 5 10 15
 Trp Lys Arg Ala Glu Phe Xaa Arg Xaa Glu Met Glu Xaa Leu Ser Val
 20 25 30
 45 Phe Xaa Ser Tyr Xaa Pro Xaa Glu Pro Asn Cys Arg Ile Xaa Val Lys
 35 40 45
 Asn Leu Ala Lys Xaa Val Gln Xaa Lys Xaa Leu Lys Xaa Ile Phe Gly
 50 55 60
 Xaa Xaa Val Xaa Phe Ser Ser Xaa Xaa Gln Xaa Ile Met Phe Xaa Lys
 50 65 70 75 80
 Arg Xaa Xaa Lys Lys Gly Xaa Met Lys Xaa Gln Ala Phe Ile Gly Leu
 85 90 95
 Pro Asn Glu Lys Ala Xaa Ala Lys Xaa Leu Lys Glu Xaa Asn Gly Xaa
 100 105 110
 55 Xaa Leu Phe Gly Lys Pro Met Xaa Val Gln Phe Ala Arg Xaa Xaa Xaa
 115 120 125
 Pro Xaa Gln Asp Pro Lys Glu Gly Lys Xaa Lys Xaa
 130 135 140

60 <210> 1327
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 1327

1 Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
 5 Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys
 Glu Ile Asp Lys Ile Asn Gly Lys Leu Xaa Glu Ser Pro Asp Asn Asp
 Gly Phe Leu Lys Ala Pro Cys Xaa Met Lys Val Ser Ile Pro Thr Lys
 10 Ala Leu Xaa Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu
 Lys Xaa Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro
 15 Asn Lys Ala Leu Glu Leu Lys Asn Glu Xaa Thr Leu Arg Ala Asp Gln
 Met Phe Pro Ser Xaa Ser Lys Gln Lys Lys Xaa Glu Glu Asn Ser Trp
 Asp Ser Xaa Ser Leu Xaa Glu Thr Val Ser Gln Lys Asp Val Cys Val
 20 Pro Lys Ala Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu
 Glu Asp Ser Thr Ser Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys
 25 Glu Arg Xaa Xaa Glu Leu Xaa Lys Asp Pro Val Asn Asn Arg Xaa Xaa
 Lys Met Glu Gln Met Lys Lys Lys Phe Trp Cys Xaa Glu Lys Glu Thr
 Val Arg Ser Gln Arg Ser
 30 210

<210> 1328

<211> 86

<212> PRT

35 <213> Homo sapiens

<400> 1328

1 Leu Phe Xaa Asn Cys Lys Xaa Cys Xaa Gly Phe Pro Ser Xaa Leu Met
 40 Ser Ser Arg Leu His Ser Ile His Pro Asp Leu Val Xaa Ser Leu Arg
 Trp Ser Ala Val Ala Gln Xaa Ser Ala His Cys Lys Leu Cys Leu Pro
 Gly Ser Arg His Ser Pro Ala Thr Ala Ser Arg Val Val Gly Leu Gln
 45 Ala Pro Ala Thr Thr Pro Thr Tyr Phe Phe Phe Cys Ile Phe Ser Arg
 Asp Gly Phe Xaa Pro Cys
 50 85

<210> 1329

<211> 77

<212> PRT

55 <213> Homo sapiens

<400> 1329

1 Val Pro Xaa Leu Gln Lys Xaa Xaa Arg Ile Pro Ile Xaa Pro Asp Glu
 60 Gln Gln Thr Ser Phe Asn Pro Pro Arg Ser Arg Xaa Val Thr Gln Val
 Glu Cys Ser Gly Ala Xaa Phe Gly Ser Leu Gln Thr Leu Pro Pro Arg
 Phe Thr Pro Phe Ser Cys His Ser Leu Pro Ser Ser Gly Thr Thr Gly

[illegible]

<400> 1332

	Ser	Gly	Cys	Gln	Thr	Trp	Pro	Met	Gln	Ile	Xaa	Ser	Asp	Phe	Asn	Met
	1				5					10					15	
5	Leu	Xaa	Pro	Gly	Xaa	Xaa	Val	Xaa	Ile	Ile	Asp	Val	Ser	Pro	Val	Arg
				20					25					30		
	Gly	Gly	Arg	Xaa	Thr	Pro	His	Ala	Leu	Glu	Phe	Leu	Arg	Lys	Asp	Cys
			35					40					45			
	Ala	Asn	Val	Asn	Asp	Phe	Phe	Met	Arg	His	Ser	Val	Ala	Val	Met	Thr
	50						55					60				
10	Val	Arg	Glu	Leu	Phe	Glu	Phe	Val	Thr	Asp	Pro	Ser	Ile	Thr	His	Glu
	65					70					75				80	
	Asn	Met	Asp	Ala	Tyr	Leu	Ser	Lys	Ala	Met	Glu	Ile	Ala	Ser	Gln	Arg
					85				90						95	
	Thr	Lys	Glu	Glu	Arg	Ser	Ser	Gln	Asp	His	Val	Asp	Glu	Glu	Val	Phe
15					100				105					110		
	Lys	Arg	Ala	Tyr	Ile	Pro	Arg	Thr	Leu	Asn	Glu	Val	Lys	Asn	Tyr	Glu
			115					120					125			
	Arg	Asp	Met	Asp	Ile	Ile	Met	Lys	Leu	Lys	Glu	Glu	Asp	Met	Ala	Met
	130						135					140				
20	Asn	Ala	Gln	Gln	Asp	Asn	Ile	Xaa	Tyr	Gln	Thr	Val	Thr	Gly	Leu	Lys
	145					150					155				160	
	Lys	Asp	Leu	Ser	Gly	Val	Gln	Lys	Val	Pro	Ala	Leu	Leu	Glu	Asn	Gln
					165					170					175	
	Val	Glu	Glu	Arg	Thr	Cys	Xaa	Asp	Ser	Glu	Asp	Ile	Gly	Ser	Xaa	Glu
25					180				185					190		
	Cys	Xaa	Asp	Thr	Asp	Xaa	Glu	Glu	Gln	Gly	Asp	His	Ala	Arg	Pro	Lys
			195					200					205			
	Lys	His	Thr	Thr	Asp	Pro	Asp	Ile	Asp	Lys	Lys	Glu	Arg	Lys	Lys	Met
	210						215					220				
30	Val	Lys	Glu	Ala	Gln	Arg	Glu	Lys	Arg	Lys	Asn	Lys	Ile	Pro	Lys	His
	225					230					235					240
	Val															

